South Park & Starsiege: Tribes Reviewed inside

NINTENDO 64 · PLAYSTATION · PC · DREAMCAST · ARCADE · ONLINE · MAC



GENERATION

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QUAKE 3

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THE BIG BLUE

you that there hasn't been a real Sonic game since Sonic and Kinuckies. Watching a once-great videogram character star in a collection of substandard Saturn sequels and spin-offs has been a dispiriting experience — somewhat sain to watching a box office star will plin to the made-to-TV-movie morass. As Sonic makes his return in Japan, we rate the game — and the comeback—on page 22.

Ask anyone who loves Sega's blue mascot and they'll tell

As Sonic Adventure Isunches, Sega's veteran game designer and produce; Yu Suzuki is selling a dream of his own. Sheamme, the highly anticipated Wirtur Fighter RPG project, is now very much a reality. As the curtain rose for the first public showing of the game in Japan, Next Generation was there to bring you the scoop (page 21).

Back on home turf, the Quake III hype machine is gathering speech. We follow up our in-depth report on Id's latest project in MG 50 with a face-to-face interview with John Carmack. The PC world wouldn't be the same without him, and by the sound of it, the thrust of 30 graphics, online gaming, and Ferrari's sales forecasts wouldn't be either. You can catch him on page 70.

And for those of you who've seen the TV ads for Acclaim's South Park game — the answer to the question "How can an ass this big fit into a cart this gnall?" can be found on page 84. And by the way — you killed Kenny. You bastards.



trespasser • need for speed III • dark veng alien resurrection • deus-ex • slave zero • starsiege
 moto racer
 black
 white ultima: ascension • x-com; alliance • future nomeworld klingon · whe desce ultima 000 thei · babylon 5 · prince anachronox · fifa interstate gear II . ruud a. sabelle · heav · shogo: mobile armor division · myth II · requiem: avenging angel • aliens vs. predate populous: the beginning • powerslide • sac descent 3 • drakan • ultimate race pro • h starsiege tribes • tnn outdoors pro hunter eroc II • de CREATIVE ar II • bene virtua rally • madden nii 55 crime cities might & magic VII • motorhead • rollcage



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MANK (DISSIG) prosident.

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INSIDE THE RACING MIND OF JOHN CARMACK He all but invented the first-person shooter, and he might be the best computer game programmer on the face of the Earth, Currenth

working seven days a week on Quake At, Arena (and wishing there were more days in the week than just severi), id's John Carmack doesn't have time to look over his shoulder at everyone running to keep up with him technologically. How does it feel to be at the too? Does he have any spare time at all? Next Generation talks shop with the hardest-working man in the game business



quilibrium

in different serves handle real-world physics

of the car is banking it spect of

GAME PHYSICS Games simulate reality, right? Well, not just yet - but they're getting closer, Next Generation examines how different games



DREAMCAST

Read the full review of Sonic Adventure, the latest on Yu Suzuki's Writia Aighter RPG, Shenmue; and more Plus, check out the story of Sega hardware from Genesis to Dreamcast starting on page 78





INTELLIGENCE

Look out - the Macintosh might be a viable game platform after all • Mark Cerny: making games better on his own • A PlayStation emulator becomes commercially available ... maybe





ALPHAS: 24 games previewed
Why do you think we call this magazine "Next" Generation? Take a look at the latest inform on the games you'll be playing sometime around the next millerium



FINALS: 16 games reviewed

Few things in life give us more pleasure than a great game — and lew things amony us more than a crappy one. See what our crack reviewers think is not (and what's not) this month

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70 TALKING John Carmack

The man who gave us Doom and Quake would rather be programming than anything else NG SPECIAL

> From Genesis to Dreamcast The brief history of Sega hardware: from triumph, to tragedy, to a hopeful future

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We'd like to know a little more about you

NG R **Advanced strategies**

The inside word from those who made the game: 104 FNDING

Next Generation brings you down easy with tid bits from our readers and highlights from the past Betroview Taking a look back Next month

INTELLIGENCE

Game industry news and analysis

APPLE TACKLES GAME MARKET

"This time we're serious" declares Jobs, Apple

amers have long scoffed at the Macintosh, and that's been fine with Apple, which has never seemed to view gaming as a

É

"We want to be the best game platform in the world," Jobs said in a public recommitment to games at Macworld Expo

> a few dedicated companies such as MasSeft, Bunger, and staphic Simulations—who often seemed to succeed despite Apple—the company has earned a reputation as indifferent in forc downright hostile, to games and game developers. Apple plans to turn around

high priority. With the exception of

that reputation. "We want to be the best gaming platform in the world," interim CEO Steve Jobs announced in a public recommitment to gamed during his keynote address.

address.
The backbone of Apple's strategy is building computers that.



Built of translucent polycarbonate, the new G3's design is stunning

will win over both consumers and developers. The company's new flagship GSs boast speeds of up to 400MHz and includes an ATI R8g8 128 graphics accelerator on the motherboard along with 1648 of graphics memory. Although the clock speed is slower than the 450MHz high-end.

AN AUDIENCE WITH STEVE JOBS



My business card says 'ICEO' julpped Jobs, referring to his and his success with the IMac

ext Generation spoke to Apple's co-founder and interim CEO Steve Jobs about the company's strategy in the game market. Excepts from the interview follow:

NG: We've heard before that Apple is going to be serious about games. How do we know this time it's for real?

Steve Jobs: I can't speak for what happened a few years ago. I apologize for that, but I wasn't around. All I can tell you is what's happening now: A bunch of people here really like games, and also, a bunch of people here are really smart and know that their customers really like games. We also want to be good at

We also want to be good at system performance and graphics in general, and games are a wonderful way to pound the system and the software to its limits. We just see a lot of advantages in trying to be the best garring platform. So I just don't think that's gaing to change. There are too many advantages to doing it, it's just an objoyous thing to do.

We've been working with ATI

for almost a year now, and betting that together we could oull off the Rage 128 in this time frame. I mean, this is a heart transplant of our highest revenue-producing product. The Power Macintosh product line is our highest revenue- and profit-producing product in the line, and a heart transplant is where you stop one and start another, you know? We built that heart transplant on the Rage 128, because we really wanted to leapfrog the PC industry and we wanted to be the first people to use this.

NEXT

Ma

Pentium II. a more efficient processor enables the ATIequipped G3s to offer around 20% better performance than a P2 450 with a single Voodoo2 card.

The new G3s are built from transfucent polycarbonate and feature a design inspired by Apple's best-selling (Mac. One especially welcome feature (that Next Generation hopes all PC manufacturers emulate) is the easy-to-open side panel, which provides instant access to

the 3D standard in future versions of the Mac OS.

Dunny the keynote, id Software's John Carmack (interviewed on page 70) declared, "Apple finally has its hardware and software act together with regard to 3D graphics acceleration." An announcement that Quake At Arena will ship simultaneously for the Mac and PC was followed by the first public demonstration of the game - on the new G3. Also good news to Mac gamers was

game-friendly PC buyers more interested in the Mac until more games are available

Meanwhile. Apple seems to be having no problem moving its hardware to the mass market. According to sales figures, more than 800,000 iMacs shipped from August 15 to December 31, 1998 - 45% of them to customers new to the platform. If Apple continues to move computers at that rate, developers will likely no longer

need wooing

WHAT IS IT?



During the Macworld Expo keynote, Id Software's John Carmack declared, "Apple finally has its act together with regard to 3D graphics acceleration"

expansion slots. The new Mac can address up to 1GB of RAM, has room for three hard drives inside the case, and has four PCI slots, a 1GR Ethernet hustristosorder cotion, a CD-ROM, a DVD, a Zip drive and USB and FireWire ports Four models are available with prices ranging from \$1.599 to \$2,999.

Part two of the strategy is bringing more games to the platform, According to Jobs, Apple is actively courting top-tier developers to program for Macs, and to help that effort, Apple has announced that OpenGL will be

the report that any developer who licenses the Quake engine will get the Mac code, (Just 15K of that code is Mac-specific, meaning it's easy to port.) Apple stunned conference attendees with surprise announcements of new Mac games, including Tomb Raider IV. SimOlty 3000, Heretic II. Age of Empires, and Tom Clancy's Painhour Six

Apple also took time out to demo Connectix's Virtual Game Station, which enables Mac users to play PlayStation games on their G3s. Like the company's Virtual PC emulator, it works best with the slower games, but it could make



We also believe that if you want to make it easy for the consumer, you have to build it in.

We talked to some of the best game authors who told us if we could build in something great, it would make it so much simpler for the consumer and for them, because they don't have to write a zillion drivers for a zillion 3D systems and cards. They don't have to write any drivers. We're going to do all of that. We're going to put OpenGL in there, and we're going to have all the drivers written. All they have to do is just make

OpenGL calls and everything else is done. There is no system configuration. There is no card to plug in. There are no drivers to load. There are no libraries to load. It's just all going to work,

We really wanted to build in the Rage 128 from the very first. Those are the kind of bets we are making and for us, it's a lot of work, but I think it's going to pay off. We're doing a lot of work on the Game Sprockets (Apple's gaming APIS) You'll definitely see more of that. Plus, the USB stuff is perfect. for games. There are all sorts of

controllers coming out now, and again; you can just plug in as many things as you want, up to 127 controllers. So a lot of the other strategies we're pursuing fold really well into helping to make a better gaming platform, too.

NG: What is your strategy for encouraging developers to write for the Mac? Is Apple trying to encourage everyone across the board to write more for the Mac, or is it a more focused effort toward getting the high-profile developers to write for the Mac?

SJ: When you're trying to come back into something, you go after the most popular games, and you go after the most popular games for two reasons. First, because they are the most popular and they're going to serve more customers. Second, in general, you'll find that those are lwritten by] the legendary game authors, and if the legendary game authors think it's cool to come back to the Mac, then they're soing to serve as role models for a lot of the other game authors."

Continued on page 12

Continued from page 11



NG: Are you going to be trying to get to some of these top games to be Mac-first releases, or will they be primarily parallel releases?

SJ: Clearly, we would like some unique development down the road, but what we're doing right now is trying to work with the toptier developers. listen to them very carefully, and build the best gaming. platform in the world so they are attracted to write for it.

I have confidence that as we continue to improve and bring the kind of technology to this that I think Apple can bring - technology I don't see on the PC side --- we will start to get some unique things done on the Macintosh, or quite possibly, games that are crossplatform but have some unique features that only come alive on the Macintosh. And I think we're more likely to see that,"

NG: Given how many people use Wintel machines compared to how many use Macintoshes, can Apple ever hope to have the dominant game platform?

SJ: Just because there are more Writel PCs sold than Mac, that

Macs is around 25 million and I don't think that's a small number. It is smaller than the PC, but it's a market that buys more software per computer. It's a market that's on the internet at a higher rate per computer, it's a market that is certainly filled with the more creative segments of society, in

terms of the customers we sell to: There are a lot of advantages in writing for the Mac right now. I think we're on the upswing, and we're bringing a lot of new customers into the market. In percentage of sales, we're bringing in a higher percentage of new



everything, We're like BMW in that we make our own engines, we make our own transmissions. We do the hardware, we do the software, we do the design, and we do the marketing. We do everything. Apple is leading now in USB. Apple is ahead of the PC industry.

The same thing is happening now with FireWire, Apple can pick a few handfuls of initiatives each year and drive them in every layer of the product, and that is worth an incredible amount when you are trying to bring innovation into the marketolace. We can make a decision that we want to build in a Rage 128 in every configuration of the model, but that isn't enough. We have the system software to deal with. We're going to put in OpenGL, and we're going to look at the whole thing as a system and tune that package to where this thing is going to have obenomenal

SGI is about to introduce their NT workstations and I wouldn't be surprised if we didn't have faster OpenGL performance than they do - at half the price. We're really committed to that, and that's just something no other PC vendor is

graphics performance.

really going to be committed to. The same vendors don't like Direct3D because it doesn't take advantage of all the latest features in the new, hot chips, if a game developer likes OpenGL and Compag doesn't deal with it. maybe they deal with the card and maybe they don't, and Microsoft doesn't care about it, they're just kind of left to be system integrated. Someone has got to be a system

integrator. Well, we think that's what we should be doing. If we do our job right, we'll make this not only really high performance, but we'll make it really easy for both the customer and for the developer. We're the last people in this business that make the whole widget, and that was being touted a year and a half ago as Apple's downfall -- "Apple is too vertically integrated" - but I believe it is Apple's greatest strength.

Just because there are more Wintel PCs sold then Macs, that doesn't meke them better - there ere more Fords sold than BMWs, but thet doesn't mean e Teurus is e better car

> doesn't make them better Right? There are more Fords sold than RMWs, but that doesn't mean a Ford Taurus is a better car."

NG: Do you see Connectix Virtual Game Machine as a jump start for luring console owners? SJ: I don't know. Clearly, people don't buy PCs to run Sony

PlayStation games with, it may be the frosting on the cake, which I think is wonderful. Frosting tastes good. I think it will actually be pretty popular.

NG: In the past, developers said they were reluctant to develop for Mac because of its smaller installed base compared with Writel PCs. What market share do you hope to

SJ: The active installed base of

customers than the PC crowd is I also think Apple is a company that's willing to work with some of these developers more in marketing than maybe some of the other PC companies." NG: So what is the advantage that

Apple has that could allow it to make it the premiere platform? SJ: One of the things you have to remember is that Apple is the only company left that makes the whole widget, Imagine being a car company where you get your engine from this Intel engine company, right? And you get your body design and your seats and everything else from this other company called Microsoft, and you bolt them together and you get to throw in the spare tire and you ship the car. Apple, however, makes



Connector, makers of the Virtual PC emulators for Macintosh computers, dropped a bombshell at the recent Macword spread on the future of Apple and the astrounding sales of the Mac (now approaching it million units), delegates were treated to a demo of Virtual Game Station — a Play-

Station emulator for all G3 Macs. The announcement resurrected the barely buried questions over the legality of emulation and provided some interesting "what its" for the future of console and computer systems Though the VGS only runs black U.S. PlayStation discs, a unofficial patch has already appeared on the Internet that enables it to run gold discs and official Japanese and European PlayStation titles which is just what Connectix is trying to avoid. After all, if they can be finked with piracy or any kind of copyright or patent infringement in any way - Sony could file an injunction preventing the \$49 program from being sold.

At press time, Sony's comment was "No comment," but judging by previous David and Gollath emulation battles.



(Nintendo, for example), it would come as no surprise to anyone if the Sony lawyers were being assembled.

The problem for Sony (and the most filley equipment for the lock of an immediate injunction is shall be possible to previse-engineer the PlayStation using all original code, indeed, when the Virtual Game Station books a game, there's no traditional Sony start here's no traditional Sony start here's no traditional Sony start here's no traditional Sony start has bypassed the system's Book or there's most and several song or the system's Book or the

Jonathan Garber, Connectix' CTO, however, believes the Virtual Game Station could be a help to Sony — not a hindrance. "Our fervent hope is that Sony will realize that this extends the market for their games

year, 800,000 he explains. "This significantly," he explains. "This significantly," he explains. This significant wouldn't it be great if Sony suddenly found another million people to sell CDs to?"

Sony is unitable to se

Sony is unificely to see it that way, but it may be powerless to stop Connectix from selling its emulator. The speed, and apparent ease, with which the VSS was created has people thinking about Dreamcast. Would it, for example, be possible to emulate the Play-

Station on Sega's new machine? "Is it desible?" I don't lanow, claims (adrect") Do we have a product like their 90 km fee long, couldn't say whether that's concevate or not, to be horest. Sometimes there are surprises in hardware that firm things," Casher may be surprised to hear the response of Aaron Gilse, lead software engineer at Comectur, to the same quiston. "I don't see why not," the said. "The Direamses is list at like a powerful PC."

Now that would really annoy Sorry.

VIRTUAL GAME STATION

The ambition only more on GS-doupped Macs and inspires 10MB or FAM. Although it doesn't not all the Physiciating primes we tred, a rein missed of them and without a problem though there was sorm alterdom on the permis that required a lot of disc accessing). Unlike the PC Physiciation mission, PSINE, VISI doesn't, at the stage, table advances on the teature-filtering.

properties of Macs equipped with











Yomb iii was quite jerky and too dark (above), but it ran, as did most U.S. games we tried. All the shots here were taken from the MacIntosh

http://www.next-generat

The emulator does well with games like invasion From Beyond, which don't tax the PlayStation hardware

SEGA. MIDWAY DEBUT **NEW ARCADE GAMES** Many new arcade videogames column goes to press. The first three titles using their new Naomi platform (which uses

screen and podium-style player tations; foot pedal and hand lever controls fit the rail-car

America's top arcade video factory, Midway Games, has down with boat-racing theme. It and Chicago; the game got its official U.S. arcade debut the first

week of February.

Also coming from Midway is

NBA Showtime: The NBA on NBC two basketball action. From the team who brought you Alitz Hangtime, and NBA Jam, it ships

U.S. SENATORS PRAISE GAME RATINGS

arcade videogames an "A for effort" for the development of a videoxame content. But the "incomplete" for incons implementation. In other words, a lot of arcades still haven't

' in its report card. ever, Sens. Lieberman and

the Advisory System The Institute visited locations in California, Louisi ana, Minnesota, and New York and found 30% compliance with the game rating system Citing a recent visit to an industry for "making good on

WAL-MART BANS VIOLENT GAMES

policy will cause fremors in cutive suites from Chicago to Tokyo

The games were scheduled to be removed from II. "In keeping with the family atmosphere inherent at Wal-Mart stores, videogames or pinball machines with sexual

WILL DREAMCAST **RESCUE SEGA?**

Japan's arcade game factories are still in serious trouble Sega reported from Japan that although their arcade division

rated as junk bonds by the U.S. ratings group, Moody's Investors. However, Sega

insiders claim Moody's is behind the curve, given the successful launch in Japan of market launch later this year

cade game sales dropped ightly, and Capcom's overall

ANGEL ENTERS ARCAGE ARENA

videogames? Yes! This year, Angel Studios (Carlsbad, CA) nt venture caned com: igel Studios has starter of 7-Rex. Gearing up for all this, Angel has appointed DisneyOuest alumnus Kevin

TRIVIA CHALLENGE

Metch the memorable fine to the game:

1 Bewere, I five 2 Can love bloom on the

E Durchi

4 Press Start Button to line

7 Rise from your Grave

Stev enhile Stev forever

9 Kick, Punch, it's all in the mind. 10 you, the mester

of unlocking 11 Prepare to qualify 12 Eli needs food, badly

A Gountlet R Aharod Report

C STUN Rimer

8 PaRapos the Repper E Metal Geer Solid

F Pole Position B Resident Evil

H Impossible Mission Mortel Kombet

K Duka Nukem 3D L Omeshow









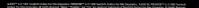
AST,311,301,08,H8,B17 VICENSIA: 1-7' S.E' 3-K' 4-C' 2-f' 8-f'



A L I E N S PREDATOR

LOCK AND LOAD THIS SPRING.







IN THE STUDIO

Tomb Raider III is out the door, about a new title called Frien No word on what kind of game It is, but wouldn't you bet it's a third-person character

While 989's Cardinal Syn didn't add any cachet to the studio's portfolio, the team is taking another stab at fighting genre. internally developed project



With each press release, Next Generation continues to marvel at how many different nds, GT has recently acquired

Legend had already been working with GT on Wheel of Time, and is also working on an Unreal level pack, as well as Unreal II, (Unreal creators, Epic Megagames, have opted out of doing the sequel themselves).

known for its work on both





will be Driver for the PlayStation

agreement with Infinite Machine, a California-based ite Machine's first title, a 3D action game for the PC, should ship some time in the year 2000

While unannounced at press time. Singletrac's Rogue Trip team is departing to form a new Utah-based studio under the GT

What's next for Take 2 looking into purchasing several but Next Generation hopes



it's something along the lines of a Rage Against the Machine/ DMA Design collaboration

Sony Computer Entertainment America has announced its intention to publish Legend of Legala in the U.S. This 3D RPG shelves in March

NINTENDO COOL ON NEW PLATFORM

Slow-burn strategy for Nintendo 64 successor, says Nintendo's Peter Main



Peter Main is bearish on the cts for an early next

espite the failure of the Nintendo 64 in Japan, and the huse amount of buzz being generated by Sega's Dreamcast. Nintendo says it will not be rushing its next-generation platform. Specifically, Executive Vice President of Marketing and Sales. Peter Main, has responded to various reports on "Nintendo 2000" in an interview with Next Generation sister magazine Games Ausiness. He stated that the manufacturer has nower been first in a hardware generation, and never would be.

"White I acknowledge that the early adopter plays a role we've never felt compelled - in the 8-bit. arena, the handheld arena, the 16bit arena, or the current 64-bit arena to be first, in order to meet what we feel are first indicators of early adopters."

He added: "Each hardware generation has a potential of 35 to 45 million pieces of hardware in this country. We have an understanding of what kind of development resources are available to us. Against that we plot what is the best strategy for maximizing sales over a 60 to 70 month time frame against that universe. And I think to get totally focused on the first million units to get sold is a mistake that hardware and software people have got to resist." That said, R&D on Nintendo's

next-generation system is underway. Graphics hardware is being developed by a startup called ArtX, a company founded by ex-employees of Silicon Graphics. Stirron Graphics which had previously been Nintendo's graphics partner, reacted by bringing a lawsuit against ArtX. That suit was later dropped and a "letter of understanding" was issued.

Nintendo of America President Minoni Arakawa has offered tantalizing clues as to the hardware's storage format. At a recent press conference in Japan he said, "It is by no means certain that the next console will use cartridge ROM. We are currently researching all types of media to determine what is the most suitable format, including DVD."

Pur desnite soft languese sales. Nintendo is in no great rush to supersede the Nintendo 64. Although the machine is being dubbed "Nintendo 2000" in the frenzied online chat rooms and more excitable elements of the press, a launch next year is believed to be unlikely. Main added: "It's not that we enjoy being second, but what we do enjoy is wetching other people's mistakes, trying to learn from those mistakes and ensuring again that we're in the best position to maximize the higger numbers that are possible over that time frame."

The man who oversaw the birth of Crash Bandicoot sets out on his own and forms a very different kind of game company

ark Cerny (see the Next Generation interview in NG 43) has one of the best track records in the industry, ever since creating the classic Marble Madness for Atari at the tender age of 17. His last gig was a fouryear stint at Universal Interactive, where he oversaw the creation of Crash Bandicoot and Spyro the Dragon - games that are notable for being some of the few U.S. designed games to be top sellers in Japan.

As it happens frequently in

the industry however, now he's striking out on his own. But Cerny Games is built on a very different model from most videogame startups, it's less a standalone development company than a design consultant firm, with Cerny working in much the same capacity as he did at Universal. That is, come in during the most crucial phase of production and focus on play testing, play balance, and making sure a game is intuitive to control and fun. "The

priorities are a bit different," Cerny explains his plans for the company: "The concept is to place working on a good game first, working in an enjoyable environment second, and not worry so much in the short run about gaining money or prestige. Practically speaking, this means: find good projects and work on them as producer, game designer. or technical programmer, and target working with people who are completely capable of making games without you, but will work with you anyway because of the increased likelihood of making a

Cerny Games currently has exactly two employees: Mark Cerny and Michael John (who was also a producer on Spyro and Disruptor). Currently, they're working with Insomniac on its next title for Universal - which means he's doing exactly the same job for exactly the same people with exactly the same helber (one suspects he's getting

stellar product."



Cerny credits his success to the underly Keep the games easy to start playing and very smooth once yo started. This allows everyone to have fun, not just the hardcore





The man who managed to make Crash a big hit in Japan can do the same for your game — just hire his company, Cerny Games

paid significantly more for it though). They are, however, also working with a second developer on another title that is very hushhush at the moment.

Still, Cerny Insists, "If this were the film industry, the Cerny Games idea would be completely unremarkable. Since the studio system ended there aren't movie 'developers' with on-staff producers, directors, writers, and production designers; instead. people come together, create a film, and then move on to their next project. The music business is another example ... look at the synergistic but independent relationships between U2 and Brian Enol There's no reason to believe that games won't move to a more project-oriented model like these other entertainment media have."

HAROCORE

BUMOR CHECK: SEGA

The Rumer: Sego's now CEO, Sharten Inmenn, pessenists about Dreamcast's chances for worldwide success, is about to step down and accept a position the United States as heed of General Motor's Delohi subsidiery. which is being spun off into an independent company Considering that Inmain knows more about for success — than anyone, this move bodes very coorly for

The Reside: Immorri served a great deal of respect during his years at Honda USA, and was asked to sit on the Board of Oirectors of the newly independent Delphi. The Director cosition involves meeting several times a year with the other directors, offering advice and making sure the performance of

BIG IN JAPAN

Next Generation reports from the Eastern front

LA Machine Guns



A Machine Guns is the sequel to 1997's low

Oceaning in street to show on as garrier if addition to Los Angeles, you can mow down the enemy in Las Vegas, Alchtrar kland, and an underground Viscenite base, before Visiting Death Valley for the final showld Finally, unlike colin-op shoot-fem-ups, the revamped Al randomizes the appearance of targets, so that no two games are the same. Currently playing in lapan, LA Asschine Gurs is certain to arrive here before to long.

SELLING BIG IN JAPAN THIS MONTH

- 1. Yu-G-Dhi Dual Monsters (Konami) GB
- 2 Cresh Bandicoot 3 (SCE) PS 3 Mobile Suit Gundam: Charls Counter Attack (Rendar) PS
- 4 Genso Sukaden 2 (Konami) PS 5 Ehrgeiz (Square) PS
- 6 Pokemon Card GB (Nationale) GB 7. Mario Party (Mintendo) NB4 8 Pikechii Gerlii Dechii
- (Nintendo) NB4 9 R4 Ridge Recentions 4 (Namco) PS 10 Elle's Ather 2 (Gust) PS

In the tradition of its fenesic coin-op list Gun audic, Namoo's Fentomor's Rooting consists of 25 smilar shoot of tempum lini-games. Featuring feating-spite-based graphics, the various stages offer simple-pleaumes such as biovaing away cockmaches, picking of crows, beasing utifics (with rockess), and shooting cells to separate bioting. As in Gun Buillett, a basic objective is set at the

Tenkomori Shooting



rall carts, pumping the lever up and down to achieve forward motion. As with Taito's Densha Da Go! the



Save your girlfriend from evil, wear blue pants and 'pump' your truck — that's Magical Truck Adventure



TRICKY SLIDERS

Capcom's snowboarding game for PlayStation will be in Japanese stores by the time you read this. Tapping into the current trend for all things snowboarder (fashion, in nanticular). Trocky Siylans makes good use of all manner of co-promotions and sponsors, and has extended the character customization facility to accommodate a wide range of clothes and equipment. Early reports suggest a rather average title with a strong twoplayer mode A U.S. release under the title Freestyle Boardin' is imminent













Mugical Truck Adventure is designed to appeal to couples, hence The Sound of Music look ...





Volume

I/A 1541D PIVA 1541S

Approx. 60 min. running time each

English Dubbed \$9498

English Subtitled \$ 9 Q 98

Songer Anime products are available from these and other



SUNCOASI

Chaostimes three! First, Miz Mijshal
<u>ets's adrunk fuisway- to proposy</u> o her.
<u>Unfortunately Edisawa</u> gets cold feet and goes off
<u>on an extended backpacking trip - leaving Makelot</u>
to breat, the news to everyone else in the middle
of the weighing ceremony! Then, princess fators
inpressionates Makelot attempting to seduce both
<u>blanda Shayla and Nanamil Meanwhile</u>, to make
<u>Makelot elife exeri more crazy, Jinnal has manafaced
to Jimd and awaken another goddess of destruction
- Raila. Unfortunately for everyone, Kella does
'not follow anymone's oddrey, and truly Gesthes' to
'more than a strength of the complete of
'more of the management of the complete of
'more of the management of
'more of </u>

destroy everything in El Hazard !! Each voldine confains at least one collectific, almited edition card (while supplies last, card set split, between Bld Mararit 2 and the re-release of !!! Hazard !).

Don't miss out on these new adventures in The Magnificent World of El Hazardi

Next Generation tracks the progress of Sega's dream machine

Shenmue revealed

Discerber 20 at the National Convention Hall in Visiohams, juan, Ya Sizsiai Winnede when he washously been referred to as Virtus Pighter RRG, Project Berlindey, and Binary). Shormen it is perhaps the most agenty availated of all the amounteed theremost titles, and make Susain's Second Forey with controls genting following more than a discade of top-drawer converge development under the auspices of Sega's legendary AMZ division.

After walline for house in a line that stretched

After waiting for house in a line that stretched Activation with the property of the property of subtraction. I want to the property of description. A subtraction of the property of hughly popular Contract popular, Affer the took for project, which stands in 1974, Suzuki organized his reasons for developing which he need as unique titles, as side the completely and inaccessible of gainess of the property of the property of large times, wanted to make a gainer that anyone place most interest was to be a property of large times, wanted to make a gainer that anyone place most interest way toward organizing the grant place. The property of processible of of processible

Set in modern-day China, Shenmue features four main characters (from a total cast of S00) and more than 1200 different locations to explore. Sega has divided the action elements of the gameplay into Quick Timer Events and Quick Timer Battles, both of which require only single-button responses to progress leading some to suggest that the gameplay is a little more Dragon's Lair than Virtua Fighter. In one scene, for example, the hero is chasing someone down an alley. Instead of having to direct the character, the player simply waits until an option arrow appears on screen to decide which way to run. These on-rails sequences are slickly done, but they seem at odds with Suzuki's assertion that Shenmue is a fully free-roaming experience. The same was true of the combat. uences, which offered only limited interaction.

Segio commitment to creating a finite, promiting, Segio commitment to creating a finite, promiting, Schemax works that underlined by the need of pilipped to take pobl and gentals in the form of a sub-general to take pobl and gentals in the form of a sub-general state, all introduced a feature not yet seen in a videospace pilithrough finant to the few who purchased Trepasors——mailtern emangulation of objects. Wellnotticing to the first posen view, the player must learn to use the character's hands to sift through clotics, sworth bodieses, delivers, and you for the discress, sworth bodieses, delivers, and you for the first productions. detail of the objects is enough to make this a game in itself, as Suzuki proved as he struggled to pick his way

itself, as Suzuki proved as he struggled to pick his way through a pile of tapes found in one of the rooms. The demonstration ended with a guest appoirance by Mr. Hidekazu, star of the "New Sega" ad campaign in Japan, who congratulated W and in his efforts. The Japanese public will have the same opportunity when

Shermue ships sometime in the spring





Shenmue has no rendered of scenes — everything you se here is realtime. The only question mark that exists concerns the exact level of freedom the player is allow Sega sends in Sonic to back up Virtua Fighter. Despite stunning visuals, the results fall just short of expectations

Sonic Adventure





Son/c might not be the deepest game ever, but it is always a breathtaking roller coaster ride of speed and beauty

ith a siew of release titles that did little in the way of capturing the magnation, Sega has been counting on Soun Aberture to provide the faller app for its new supersystem. In many ways, it is everything Sega could have hoped for, showcasing the superior graphics capability of Demands, and weighting in with a big name mascot — the spiky blue one himself.

Unfortunately for Sega, look past the glitz and the hype and Sonic closen't guite push the boundaries of gaming as much as the Zekdas and Mebal Gears of the world, and falls a bit short of expectations.

There's no doubt that the game tries to be as epic as possible, Honesty, when you first see the game in action on one of the better-looking levels it's impossible not to be overwheemed by the sheer speed and older displayed on the screen. Nothing on a home system has come close to the graphical ambitions Socio displays in its more brilliant moments, and when Sonc Adverture sheet, it really states brightly. Pick up the controller, however, and the experience is a bit more down to earth. Sonic Team has done a wonderful job of converting the blue hedgehog from his 2D ancestry, and this game plays exactly as you would expect a 3D Sonic to play. Unfortunately, with



PUBLISHER
Sega

DEVELOPER
Sega (Sonic Team)

RELEASE DATE
Out now (Japan)

Japan

If there is one thing Sonic Adventure can boast, it's an impressive amount of variety. You never really knowhere you'll be or what you'll be doing next. At one point you even get to play a little Sonic Salabali (coe



that come some of the weaknesses that were inherent in the original. Namely, that most of the time you just fly straight through the levels at unimaginable speeds with a minimum of exploration. There are parts of the game where you just hold forward and pray that Sonic is doing all right - hardly the stuff to keep Miyamoto awake at night.

Where Sonic scores highest is in its unbelievable amount of spectacle. Whether you're being chased by a killer whale, flying through the sky on a helicopter, or racing down the side of a building upside down. Soric Team has succeed in making sure things never slow down. There is rarely a moment in a level where the player is not caught up in some sort of high-speed graphical wonder, and the resulting adrenaline rush more than justifies the time you spend with the title. Style (sometimes over substance) has always been the Sonic way, and his Dreamcast debut proves to be no exception.

Unfortunately (but not surprisingly), the game feels rushed, Levels are riddled with dropped frames and slowdown, bad collision detection (there are places where you can fall out of the environment), and various other buss. The camera also has quite a few problems with bad placement and oddly reversing angles. The result is a game that feels as if it was rushed through QA, and while Japanese consumers are generally more tolerant of bugs, we were



Despite this, Sonic Adventure still entertains. There are six characters to complete the same with so. despite the title's ease it still requires some time to finish. The bugs are what keeps this version from five stars — we hope they'll be removed before a U.S. release. The bottom line, however, is that this a Sonic game through and through - high speeds, lots to look at, wonderful graphics, and great music. And that's probably the highest compliment we can pay.

RATING



The directions in which Sega is siming to take its new game system will pave the way for newcomers. Next Generation met with some esteemed industry figures in Tokyo's Aoyama district hoping for a glimpse of the future

All Talk



Sega's Tetsuya Mizuguchi believes that for the coin-op industry to survive, it will need to offer new experiences

ast assemblies of game designers hosted by Next Generation have proved rewarding for readers and participants alike, allowing participants to voice frank views on the industry and the direction of game development that would (formerly of Art Dink), drawn to Dreamcast by the possibilities of developing via Windows CE. With two famed coin-op creators at the table, it seemed only polite for conversation to commence on that topic.

"The preoccupation with new technology has meant that we haven't spent enough time striving to make

otherwise remain unsaid. As one of 1998's most significant events, Dreamcast's Japanese launch seemed an ample excuse to repeat the exercise in the console's home territory. So, one evening in mid-Nevember, prior to the console's launch, four leading lights of Japan's development community were invited to wine, dine, and discuss the implications of the emerging next-generation.

Segá S Yuji Naka and Tetsuya Mizuguchi (Sonic-Team loader, and Sega Rály producer respectively) were on hand to represent Dreamcast, while Yoshiki Okamoto, Capcom's managing director of RáD— and overseer of the Street Fighter and Bio-Hazard series—provided the third-party shant. Also present was experimental developer Yoot Salto Next Generation. With the advent of Dreamcast, the standard of console graphics seems to match that of arcade machines if the gap between the two is cissing as a result of high-end graphics being made available in the home, what, in the future, will differentiate arcade and console titles?

Venhild observer. That's difficult to asswer. We develope that varied and control eiths, but I only were worked on low specification hardware for coin- go tiles. Our CPSP board hald lower speck than a Stellen or a Stellen or the Stellen or that we're working with Chemical set in Moham— they will enable us to work on the same level for both home and strake it. We're the service of the stellen of the stellen or will be work on the same level for both home and strake it. In addition, we used to make making 20 fighting gaines but now we can do 20 or 30 or conventions from not be the same follow believe this lower than the same level in the same follow to believe this conventions from not to the same follow believe this

PSYCHIC FORCE 2012 Currently only 30% complete, this arcade to arrive on to remove to arrive on to remove to arrive on to remove the spine, offering 10 characters and an ambitous 300 degree playing field with the camera moving both above and beened with good to be supply the spine of the console, along with VF3th and Power Stone. Providing it decurrent Land Hecklows slippage disease. Taito's popular colinop.



brighter spots on the

he Dreamcast version of alto's arcade hit, Psychic orce 2012, looks impressiv

will make both arcade and console users happy. Hardcore arcade players will be able to play the console versions, and vice versa; they'll be able to train on the console to play better in the arcades.

NG: But that doesn't suggest that coin-op games will be different to console titles. Isn't it, in fact, suggesting that they'll be more alike?

YO: The playing time will be different, of course, in a shoot-'em-up, for example, a final boss will be more difficult to beat in the arcade version than in the console software version.

a Mizuguchi: At the moment, consumer hardware graphics are getting much closer to arcade quality. In order to keep the two areas separate we may have to make some physical games which cannot be offered to home console users; connecting up three monitors or having a giant screen, for example, Or making more of networked games, or designing a peripheral that you can bring to the arcade cabinet, then connect and play. It may take time, but I believe arcade games will have to move in these directions. TM: I don't believe the arcade sames industry is shrinking... YO' No, it's not.

TM: I do think the consumer market is getting

'O: I don't agree, although the demand for hardware is growing. The latest hardware purchasers do not buy software - PlayStation owners don't buy software any more, they'd rather borrow games from their friends (laughs). The first PlayStation buyers, three or four years ago, were buying lots of software, but now buyers don't want to.

Yuli Naka. It's sad, really... TM: Honestly, games are becoming less and less interesting. As the hardware capabilities have increased, new possibilities for games are almost endless, and so development time has increased, and a lot of money is being invested in the creation of titles. Graphics and sound are improving all the time, but the preoccupation with new technology has meant that we haven't spent enough time striving to make better games. If we don't change this, we will never make better games. [Mizuguchi notices that Okamoto and

Naka are in discussion on the opposite side of the table). Okamoto, what do you think about this? YO: [Surprised] I don't know, I wasn't following the conversation. I was talking about the wine with Nakal

[Laughter all round] OK, I'll pay attention ... YN: I agree that as higher hardware specifications have been reached the content of games has suffered. It's been like this since consoles with CD-ROMs arrived. When there were storage limits, people were making a lot of effort to make their games more original and playable.

Yo. If it becomes possible to make good-looking games too easily, the number of games that have stunning visuals but little gameplay will increase. Actually, the number of interesting games hasn't decreased - it's just that the number of uninteresting games out there has increased. Casual gamers are attracted by game with great visuals but it's not until later that they discover the gameplay is nonexistent. Casual gamers shouldn't buy games based on their own judgement! They should let an experienced gamer buy it, and if

each has its own unique abilities. As well as

UJI MAKA



Toshiki dikamoto





NEXT GENERATION the Dreamcast's superior graphics to provide an

after one month this person says the game is still interesting, then it really is worth buying.

NG. Would you agree that slow software sales are due to a lack of imagination on the part of developers? Do you think new genres are going to appear? How old is the Street Fighter series?

YO: About 10 years old. NG: Right. So do you think that the series should still

exist in 10 years' time? VO: I would like the senes to be there in 10 years. But I think the time where everybody was playing Street Fighter II is over. There are still some fans of SAII that we can keep entertained; such games are becoming specialized to cater to the hardcore samer or serious

fan. Capcom has designed games that only players who were familiar with the previous titles in the series could play! I think 95% of titles should be given over to sequels and series while the remaining 5% consists of brand-new sames. But right now, we want to make games that can be played by first-time gamers.

NG: PDAs, such as Sega's VMS or Sony's PocketStation. are the current console phenomenon. But are they

really a revolution or just a flash in the pan, the latest gimmick?

YO: They're a novelty, like polygons were a few years ago. Everybody is saying, "We have to use it." I believe you should only use them if you need to. But if you don't want to use them, then don't if you have a car, for instance, you use it, but for getting to nearby places

you can walk. When I bought a car, I drove it to the nearest supermarket because it was new, I was proud of it and wanted to drive it! [Laughs] That same novelty factor is true of the PDA. [Okamoto owns a Ferrari] VN. There are some possibilities for evolving game design with the PocketStation and the VMS. Portable hardware will improve - I would really like to have a portable Dreamcast. Why does portable hardware have such low-quality graphics? I would like to have a Game Boy with Dreamcast's capabilities, When technology

reaches that level I'll be happy. TM. Those specifications would be very interesting in a portable ...

YN: I don't know in which direction videogames are going, but if portable hardware improves to that level, it could be very exprine.







Yout Saito expounds on the virtues of voice-recognit on technology as the future of the humble con

1964: Not really, I think there are some interesting possibilities with the VMS. An improved version of

 There are lots of things that could be taken further. There are always more possibilities, but you have to select what you want to improve, if you choose to improve the portability, it's to the detriment of other specifications Or likewise, a color screen to the detriment of the cost. In my opinion, the PocketStation is very fashionable. It's seen as a cool accessory -when you take it out of your bag, it's a stylish games console

file: I didn't think people tooked good playing Tamagotchis. The PocketStation isn't any different 1 prefer the portable computer IBM is advertising at the moment it's very sleek and stylish. But it's a Windows machine -- I'd really like a games machine that looked like that Personally, I think it would be great to put a games console in the front of the car! [Laughs]

143° Before the arrival of the 32bit machines, games were played on consoles using virtually identical digital controllers. Thanks to Nintendo, the leap to analog control has been made. How would you like to see joypads develop?

66. With the first computers you used a keyboard to communicate. When the mouse arrived, it revolutionized the way we communicate with the PC -you can even draw using a mouse. I would like to use a remote control-type system that's easy for anyone to understand I want to leave the console close to the TV. I thought about this remote controller for a long time and I wanted to make it for a PC. I thed to adapt the concent for a home console using a regular TV But to make it for a console game I needed a hardware

company willing to make a voice-recognition system and a microphone.

1 had similar Ideas, I came to the console industry from an arcade background. With arcade games you can build any controller you want. I have used so many controllers over the last three months -- an N64 one, a PlayStation one, a Saturn one, and a Dreamcast one and my ability to think objectively became limited by while and some fresh ideas came to me. I can't reveal any of these plans yet, but there are many possibilities. 6: I want something that everybody can use: You simply turn on the power, hold the controller, and you

play, it has to be natural, if I was to make a golf game for the N64, I want to use exactly the same controls that Shigeru Miyamoto used for Mario 64. Players shouldn't have to pay any attention to this and should be able to play the game very easily. We shouldn't be intimidating users - we should just make use of an existing control system.

No. Finally, as console hardware performance has increased, and graphics have become more important, development teams have grown a lot larger in size. Do you think this is a good trend for game development? (G: You'd better ask Naka... [Laughter all round]

We made the first Sonic with five people - seven including the sound designers. That amount of people was best, because in small development teams everybody has the same objective. When 1S people are designing a game there are always different coincos heine voiced. There were about 100 neonle working on Sonic Adventure. At that scale you can't listen to everyone's colmons - it's very difficult to handle¹





Capcom pursues a revolution — not evolution — of the fighting genre with its first Dreamoast title

D------

FORMAT
Arcade, Dreamcast
PUBLISHER
Capcom
DEVELOPER
Capcom
RELEASE DATE
February (arcade)

Japan

ith countless sequels and variants of Street
ith countless sequels and variants of Street
what many would consider a complete about-face with
its latest title, Power Stone. Due to appear first on
Sega's new Dreamcast-compatible Nacma arcade
hardware, the game owes tittle — if anything — to its
predicessors, and Instead relies on a number of new
elements previously unzeen in the genre.

Power Stone retains the landify detailed visual skyle and armination of capcomis past of plating titles, skyle and in a completely polygonal game engine little file mercent Stoner Explore CEA Developer. Stone is an entirely 30 spine. Palyers can go anywhere Stone is an entirely 30 spine. Palyers can go anywhere within the detailed stages, giftaing on multiple foors, statieways, and even rootings. This freedom of movement also allows for elaborate statics, which often invoke launching at opponents from ceiling rathers and swange around lampoposis.

This go anywhere gameginy is enabled by the salfity to seriously interest with the environments. Flayers can not only gash countless objects moduling park benches flower post, and catess — and throw them at their opposent, but they can trigger a mumber of stage-postic events as well, such as shorters of vivous that collapse when their supports are shortered or vivous that collapse when their supports are mechanical diargers, including garnt grinders and motion motifs pits.

The game's eight characters — including a british biplane plot and a bizarre knife-wedding mummy each boast several unique attacks which, unlike in the Street Fighthor titles, are performed via different combinations of the game's three buttons: punch, kick, and jump. Also unlike Capcom's previous fighting titles, Power Store does not allow blocking — instead,



ower Stone delivers the same levish detail in 3D het has become commonplace in Capcom's 2D titles

players must dodge hand-to-hand attacks or deflect incoming projectiles. A traditional super move meter has also been forfeted in lieu of the namesake "power stones," of which there are three to be found during each match.

Once acquired, they enable the player's character to change into a more powerful form that lasts only a short amount of time, but during which they can deal three immensely powerful super attacks on addition to powered-up punches and kicks).

Despite this profoundly unusual gameplay, Power

Stone aims to remain accessible. Capcom has instituted longer rounds to ensure that fighting doesn't become too hectic, and while the three-button control allows for more than enough vanety in attacks, it remains easy to grasp in the heat of bettle.

Capcom is hopeful that Power Stone's unique gameplay will usher in a new era of fighting games, not unike that which began upon the 1990 introduction of Street Fighter II From what Next Generation has seen and played of the game thus far, it may very well see its hopes fulfilled.



D://www/gn com





[Not the praise.]

["Stunning spell effects" — EGM]

["Deep, involving storyline...beautiful graphics" — GamePro]



["Beautifully rendered" —Next Generation]
["Loaded with exquisite music." —Gamer's Republic]

["Unravels like a good mystery...epic" —PSM]

["A highly interactive world." —PSExtreme]















What's more fun than watching cartoons? Playing 7 levels of Game Boy Color Looney Tunes with all your favorite characters! Coming in March'99!



Coming Soon!



The seriously addictive, classic tile matching game, with all new levels and layouts! vailable Now!



Challenging hand to hand fighting action with an adventure story tossed in for more excitement! Available Now!



10 monsters, 20 levels, 100 ways to win and 100,000 ways to die. Go figure! Coming in March'99!



You'll need lots of balls to play this intensely delirious puzzle game! Coming in March'99!









ALPHAS

Tales from the world of game design











- wery game is not destined for greatness. Some make an attempt, and some of those are in the pages that follow
- DMA Design Multi Clan Wars, Wild Metal Country, and more
 - fictionary hits the waves with its own racer.
 - PlayStation 989 Studios cont

 - **Metal Fatigue** Arime-style robots go realtime strategy
- minel Restity's scary nistar Unleashed
- Ace Combat 3 PlayStation
 - Namco has a third Ace up its sleeve PlayStation tarblade Alpha returns, sort of
 - Realtime action in a PC RPG? Read on .

MILESTONES

ERMAN'S RAIT

A JONES AND THE INFEARAL MACAINE THE THE MASQUEARDE MUAAI LEAGNO JEFF ADADON XS AACINA 81 NAA IN THE PROF 'SO A1 DEES ATAAL APACE II R2













DMA DESIGN

Scotland's premier developer gears up for a bumper 1999







s will be one of the first DMA g es of 1999 to arrive. It's PC only, and Hercely ga we trun trademark DMA elements — tanks and cheen)

avid Jones leans back in his chair and smiles "We tend to do stuff that's a bit strange," he says, "Publishers are very wary of investing in new ideas if they have no model to measure them against Gremin, however, saw that they could use some more onginal stuff in their portfolio. I think we're a pretty good fit."

In 1997 DMA Design was sold to Brit-soft publisher Gremlin Interactive and Jones was made Creative Director of both companies, a role he seems ideally suited for Jones and DMA, the company he founded in 1989, are all about gameplay - often at the expense of flashy graphics and box-friendly selling points. In 1998, the Scots developer produced the controversial hit. Grand Theft Auto for PlayStation and the acclaimed Space Station Sillicon Valley and Body Harvest for N64, Jones and his gang are on a roll - and it's thanks largely to a unique design process.

PUBLISHER Gremlin Interactive (U.K.) DEVELOPER DMA Design

> RELEASE DATE 1999 ORIGIN

TOYS ARE US

"What's unique? What's going to make this work? Why would I want to play this? Those are the first things I ask

people when they come to me with a game design," reveals Jones "I'm pretty jaded now, so it takes something pretty interesting to get my attention."

How about a game featuring animals that morph into other animals (Space Station Silicon Valley/? Or a gangster game set in a world that reminds players of their childhood toy cars (Grand Theft Auto)? Or a game where the primary goal is to save creatures instead of killing them (Lemmings)? Jones likens the game design process to making toys; each game needs to have its own unique set of features that makes it interesting and fun to play with. No one at DMA would go to Jones with a design for a straight driving game or realtime strategy clone - it wouldn't be a great career move. "If someone said to me 'Dave, I want

to do a driving game." I'd be down their throat in a second, i'd ask, 'What's different about it?' Does that mean we wouldn't do a driving game? No but if we did, it probably wouldn't start out as a driving game, instead, we'd come up with an idea for a vehicle that had a unique control method, then we'd decide





with playars using a







Tenktics is a year lete, following problems wi the crane design

what rules we could apply to it, and then design a world that fits those rules. That's

how we work."

A look at the 1999 DMA lineup proves the point. The three titles, Tanktos, Wild Metal City, and Clan Wars, each as, mit to provide agments with an

Tankbics, Wild Metal City, and Clari Wars, each aim to provide gamers with an engaging — and unique — experience. The first game, Tankbics, is a quirky carbon puzzler for the PC that defies

cartoon puzzler for the PC that delies disstification. Players control a hovening crane that builds custom tains using pieces created by a machine called a Part-O-Matic To function, the Part-O-Matic needs resources gleaned from the anordscape. The crane, in effect, acts as a gain' thand of God' and can be used to puck up pieces of enemy tains to other portions of enemy tains to only up or the present the present present the present that the present present the present the present present the present present the present present the present present

The dynamic between the production of the tanks needed to rule the landscape and the need to fuel the Part-O-Metic creates the game. After that it's a case of



The certoon graphics are colorful and clear, but may seem (to those who have sport money on 3D cards) a little simplistic

vying with the CPU-controlled apparent for mastery of the landscape.

All the trademark leads clarify humorous) DNA louches are here. You can, for example, jok fu pone of the sheep that wander the felds and ob them in one of the numerous like pics, setting them on fire and turning them into a handy weep on that rains' would death on your enemies. It's also possible to wait until the CPU has but it a particularly mensors; looking tank before soning in with your cone and dropping one of your with your cone and dropping one of your

No one at DMA would go to Jones with a design for a straight driving game or clone — it wouldn't be a great career move

own "brain units" (a radar) on top of the pile — effectively giving you control of your enemy's latest creation, before running amok inside the enemy base.

markoto as a totagh game, but it's oddy additive depinally it seems a intelle primare the cartoon skyle indiscapes are unlikely to appeal to the U.S. audiencel, but the sample, clean layout and magnatise level cleans layout and magnatise level cleans foreign an instruction understanding of exactly how this bey vortice. Most Establish the rules and let the pulyer play this philosophy indep) present in very DAA titis, can be seen at its purset in its second talle for 1997, MM Media Courty.

WILD THINGS

Once again, the tanks are the stars of the show—only this sime the emphases is on arcade action. You fight it out in one of five different tanks in an effort to collect all eight Power Cores scattered across an extensive playing field. So far, so everage,



To travel over the snow, you need to outfit your tanks with special tracks















Wild Metal Country (PC and No4) relias on triad-and-tasted deathmatch game mechan to drive it, with the added twist of an incredibly realistic physics angine, it's addictive

you may (rightly) think, but Wild Meta/ Country has an ace up its sleeve - an impressive physics engine

Just as in Dreamworks' Dino-yawn, Trespasser, the world in Wild Metal Country obeys the same laws of physics that we do. Everything you can see has a weight to it; move it and it obeys the rules of inertia, shoot it and the fragments spin into the air and land with force (damaging anything they hit). In addition, each tank has individual handling characteristics determined by the physics engine. A tank with a wide base is difficult to flip over but slow to turn; whereas a taller, lighter tank is susceptible to flips but much faster over

the terrain. Tank control harks back to the arcade classic, Battlezone, with separate keys on the PC version allocated to each track (DMA still hasn't confirmed how this will work on the N64 if they convert it) and another four to control the turret. Mastering the controls isn't easy, but it opens up the game enormously. Beginners tend to use just the tracks, while more

allowing them to move and fire in different directions. The terrain, which appears at first glance to be a simple affair, is key. Taking the high ground gives you a tactical advantage, but it's hard to get up there especially in the heavier tanks. Watching your tank stop only feet from

experienced players master the turret,

the crest of a hill and slide slowly back into a gully quickly teaches you the benefits of mastering such a physically real environment. What goes up must come down.

Just as in Dreamwork's dino-vawn, Trespasser, the world in WMC obeys the same laws of physics that we do

Where Wild Metal Country will shine brightest, however, is in multiplayer mode. The variety of tanks and the numerous weapons (including a giant magnet that pulls your tank toward any



Enemy tanks convarga (abovo). The turrets' elavation detarminas the trajectory of the bombs





around) makes for a wickedly vicious deathmatch experience. The only question that hovers over the game concerns, once again, the graphics. In these nost-Ligreal days DMA's insistence on functional visuals over 3D accelerated flash may leave some gamers cold.

TOY CASTLES

DMA's third title for '99 is perhaps the most interesting (and certainly the most commercial). Still in the early stages of development, Clan Wars is a realtime action/strategy game with (surprise, surprise) a unique twist. Instead of mining resources, amassing forces, and crawling around a map a la Command and Conquer (and every clone since), you simply decide whether to attack or defend for the duration of each battle

The attacking force spends its money on building siege engines and arming its troops, and the defending force spends its resources building the best castle it can to defend itself from the attackers. Once the building penod is over, the game switches to the battle, which is played out in fully scalable realtime 3D. And this time, the graphical bells and whistles are all present and accounted for.

As in Tanktics, the real joy of the game comes from manipulating the environment. Building a castle to withstand the onslaught of either a CPU or human opponent, is -- quite Iterally -only half the battle, but it is incredibly engrossing. It's easy to see why. It's a toy that appeals to the kid in all of us - the kid who never grew up and still has a great time messing around with building





lege engines are used by the attacking

blocks (or, in this case, parts of castles). This is probably a pretty good summary of DMA as a company: By taking the basic building blocks of games - the concepts and ideas - the teams are encouraged to play and create, in an industry where new ideas are hard to

come by it's a policy that attracts and By taking the basic building blocks of a game - the concepts and ideas - the teams are encouraged to play and create

"You know," reflects Janes, "we're pretty lucky, because we only do original games, and that turns on a lot of people. People here get a chance to create something new, and they're encouraged to be as creative as possible."

And he means it, too.







HYDRO THUNDER

No Cruis'n World, Midway's latest coin-op racer really takes you off-road







rook isles

ecently, it seems arcade developers are looking at console games for design inspiration. Nowhere is this more evident than in Midway's new 3D boat racing game, which borrows bits and pieces from Wave Race, Turbo Prop. Pacing and Power Boat Racing However, in traditional Midway fashion, Hydro Thursder injects the boat-racing genre with just the right amount of arcade steroid to guarantee good quarter drop.

Players race to complete each of the 11 tracks (8 selectable, 2 bonus, and 1 secret). Booster fuel must be collected and used sparingly - to either bolt past the competition or knock them out of the way, Many of these booster packs are accessible only if the player uses the ramps and/or shortcut routes scattered throughout the race.

There are 13 boats to choose from, and each has its own distinct advantages. For example, the Tidal Blade is very fast. but lacks the control (ironically) of the Miss Behave. Other boats spar longer in mirtair or boast a sharper turning radius. Visually, the game is stunning,

with bright and highly detailed textures, realistic weather effects, and welldesigned tracks. The engine is equally as impressive with smooth, fast framerates (a consistent 30fps), and realistic physics. In fact, the boats will react appropriately to 3D waves, terrain.



As in the boot-racing games before it, Hydro Thunder litters the water with e wide veriety of obstacles

and other obstacles. Next Generation took a nearly complete Hydro Thunder for a test-drive, with an eye toward the Dreamcast version planned for later this year, and came away impressed. Could this game be Dreamcast's Wave Race killer? With a good conversion, there's certainly a chance.









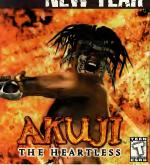


vas to laarn include a "jump on demend" trick thet ellows pleyars to evoid obstacles, such as this oppor





ONLY EIDOS BRINGS IN THE NEW YEAR WITH A BANG!



















in one-player mode, a player will race against five competitors

PlayStation
PUBLISHER
989 Studios
DEVELOPER
989 Studios
RELEASE DATE
Spring 1999

ot counting their successful sports blies, one has to wonder if 989 Studios hasn't lost all the ground it may have originally gamed by fully dedicating itself to the Playstation. And as another first-generation franchise is about to receive its third installment, the question is, can 3 Xirome redeem where Twisted Metal 3 failed?

Like those before it, 3 xtreme will capitalize on a pisyable mix of racing and combat. Players will have a selection of 12 characters who race on either skateboards, in-line skates, or BMX bikes. (The

street luge from the first game, and the snowboarding from 2 xtreme are justifiably gone.)

justificity gamb)
According to Associate Producer;
Jos Briboso, Involver, the fighting in 3
According to Associate Producer;
Jos Briboso, Involver, the fighting in 3
According to Associate Services and Associate Services

Joseph Services Services and the britished to bunching opponents, as the buttons once reserved for locking are now used to execute thicks, Players still earn points for hitting the gallets on the bracks, but now they can also sent them by successfully putting off middlar micks. Profession by the produced the produced services are the services of the putting of middlar micks. Profession by which is a more trick as this year, 999 has librared and appeared middle segment game from to, they, Santa Circus, and others.

When **Next Generation** visited 989 in December and saw 3 Xtreme with several tracks barely running at a decent framerate, the game looked very early for what 989 believes will be a March nelease. While the game makes the move to

While the game makes the move to two 30 and feature bigges characters and motion capture arimation performed by prox, these are exactly the cooles-cutter, back-of-box buildepoints that we'd expect from a third generation. PlayStation product. Ultimately, well-balanced course design, solid controls, and well-asted gamentay will be required to make 37 kt/mor result worth playing. Can all that happen by March?







Five fictional locations (from city streets to a suburban park) make up the 32 tracks: 12 Season, 10 Time Trial, 5 Freestyle, and 5 Head-to-Head



The design calls for big jumps, enabling players to get plenty of air to pull off tricks

http://www.ign.com











becomes and the easier fire spells are to cast - the drawback being that the spells from the other elements become harder to cast. "In order to be a true elementalist." Kirkland asserts. "you have to make sure you balance out the spellcasting of all the different

As important as the mechanics of an RPG are, the Soulbringer team recognizes that plot has a major part to play At the beginning, the player knows very little, only the myths of Harbinger, the local folklore. For most of the game's first five acts, the player has no idea of their role in a much grander story - a deliberate strategy on the part of Green

"Why give the player everything all at once?" he asks. "They're not going to take it all in, and you'll leave nothing for the rest of the game." Thus, Soutbringer begins with your

arrival in the small village of Madrigal, in the middle of winter. Your dving father has asked you to search for your eccentric uncle. Your uncle offers to teach you magic, so long as you pay him. To earn money you find odd jobs around the village and pick up stories about Harbinger's mythic struggle with the demons. At a local festival, your destiny is revealed and you are transported to the Hex, Harbinger's old tower and your home base for the next four acts of Soulbringer's story.



Returning to the Hex is a key feature of the game, one that gives it a real edge over its competitors, Kirkland

"Unlike a lot of RPGs, you return to the same place many times. Madrigal, for instance, is where you start and you come back to the town throughout the

"As your reputation increases," Green adds. "you find loads of

merchants and travelers coming to Madrigal to find you. The town fills up as the game progresses until, by act five, it's a thriving community with lots of different races, all altied under your

The five acts of Soulbringer's story are broken down into three different scenario categories. Primary scenarios contain everything concerning the main story, secondary scenarios help you enhance your character, and tertiary

scenarios exist just for fun. Playing time for this five-act epic should be a minimum of 50 to 60 hours,

five times bigger than Gremlin's (and Green's) earlier Realms of the Haunting. "If you can do one act in 10 hours, you're doing well," states Kirkland "You're also not doing any of the tertiary quests and probably none of the

secondary quests, either." With the game's emphasis on plot, realistic combat, and seamless game play, NG does wonder what place hit points, experience points, encumbrance, and other throwbacks to pencil-and-paper RPGs have in Southringer?

"I know exactly what you're saying," replies Green, "but it's a way of informing the player, 'You're getting

"We're trying to make the combat system

better.' Your die hard role players love

Those die-hard role players definitely have something to look forward to in Southringer - and if Gremlin achieves. all it has set out to, many more fans will be confronting their demons









PC PUBLISHER Microsoft DEVELOPER Eclipse Entertainment RELEASE DATE

FORMA

Q4 1999 U.S

DRAGON

Eclipse's newest game wraps combat and puzzle-solving in a Chinese myth



re of motion cap

















These environments, taken from pre-alpha levels, show the detail in the textures

ombining a free-roaming RPG action adventure with a fightinggame quality engine isn't a new concept - John Romero says it was his original vision for Quake, and Square even tried it with the Quest mode in Tobal #1. Until Dragon (the name will change before it ships), however, no one has devoted an entire project to the idea or managed to execute it well. Enter Eclipse and a company whose name is increasingly tied to innovative ventures in the game industry. Microsoft

Although start-up Eclipse has only one game under its belt (last year's Jack Micholas for Accolade), its employees have experience in the game industry everywhere from Infocom to EA to 3DO to Origin And Eclipse has already built the engine on which the game will be based. the impressive Genesis 3D, which supports such features as realtime light defraction, true mirrors, vertex morphing, and soft-skin polygon characters. (Although the source code costs \$50,000.

the engine, documentation, and SDK are

available, royalty-free, for potential developers at http://www.genesis3D.com.)

To enable the combination of exploration and fighting, the camera follows the player while they are exploring, but pulls to a side view during fights. Although this camera control mechanism was disastrous in 989 Studio's best-forgotten Spawn, it worked well in an early version of Dragon that Next Generation saw

The story is based largely on Chinese mythology. You take the role of either the grandson (slower but stronger) or granddaughter (faster but weaker) of a martial arts master, who has been kidnapped and placed in the dungeons of Oungeong by your father, Curregong is the Teetering Palace, a temple that borders the mountains, the ocean, and the spint world. Your job? Infiltrate the temple, defeat your father's army of supernatural beings, and rescue your grandfather Unlike many games, however, the back-story actually relates to the game on many levels, from the





nerous examples of colored lighting



As pleyers descend under the temple and into the montain, that environments and creatures they encounter will grow more mysticel

character design to the architecture of the world to the fighting and mans styles.

Although play balancing has yet to begin feich may chinge things dramstrostly, the game is about 50% combat and 50% experience and puzzle solving. The puzzles, thankfully, look to be more than yet left off the sweeth dried with this come to characterise too many acton/old-wrise, in one room, for instance, players are conformed with a never of law they must cross. Too wide to jump, the solution is to smash a higily day off in their com, causing water to flow onto the law, cooling it.

Players fight by using a combination of martial arts and supernatural powers (spells) and grow in skill (by learning new fighting moves and spells) as the game progresses, and separate bars will measure physical and spiritual health. Although Eclipse plans to make combat moves customizable (to make the game more accessible to users less familiar with fighting game conventions), the developers assure Next Generation that players "won't be able to assign a huge combo move to a single button." This is a real fighting game, not a Final Fight-style beat-'em-up, where enemies can be defeated simply by button-mashing

The architecture and environments evolve from traditional to fantastic as players descend beneath the temple. Microsoft Product Planner Jon Klimmuch says, "As good as the architecture looks, our aspirations are quite a bit higher We The geme boasts a number of special effects (top) which ere interreted into nuzzles and remedier, not just used cratilitiously

want lots more wood — it's going to be lots more organic than what you see in a lot of run-and-guns." The team is hoping that the characters are equally impressive.

The puzzles look to be more than just the "find the switch" dreck that has come to characterize too many action/adventures

To enable the megration of fighters game action and outprastion. Excitoge is using a combination of motion-capture and hard ammention Self, creating the right look and feel of the fighting is a major challenge, and it will be on the quality of the fighting that Dragon succeeds or fiels. Ecitopic understands this and will be devoting the majority of time between now and shipping to fine-funning this crucial game aspect. Adheady the varieties of the programments of the programment of t

of time between now and stepping to the between now and stepping to the futuring the routed jame appetr. Already, the game's environments contain a felver of deeps positisetation that is empressive for such a young company (one example: chorways are fairly wide, so players will never have the fustation of casiming into the fustation of casiming into the fustation of casiming into the environments, Eclipse infertainment could find that the trup from start up to superstate a short one.





camera swings from ver the shoulder view side view during bet



in a refreshing break, the female cherecters will actuelly weer appropriets clothes (top)









With a 3D angine and a multilaval play feature under its balt, Metal Fatigua offers much mora than giant anime-styla robots smashing each other to bits







unless you also control the geostationary asteroids above. FORMAT Captured with aerospatial units, PC these orbiting stones can be transformed into huge weapons platforms for battering the planet. You play all three operational theaters at once, and the windowed interface will enable you to juggle between air, ground, and subterranean campaigns simultaneously.

Psygnosis is also preparing an

realtime strategy bandwagon. And it's no surprise; with so many developers

he wheels have come off the

swords, buzz saws, missiles, and jet packs. Weight is a factor, so compromises will have to be made to keep a robot. Backed by a respectable-looking 3D engine capable of multimetric perspective in the Myth style, Metal Fatigue has every chance of breaking the RTS factory mold

almighty combination punch with its

metal behemoths. Known as combots.

they dwarf other units and are the focus

of battle thanks to their modular design

Via research and industrial espionage,

technologies for your war engines and

Combots composed of torso, arms, and

speed, strength, and jumping ability, while

weapons include a Katana sword, power

slot them together to make individual

legs. Body parts offer combinations of

you can develop or steal new





powarful waspon that

Psygnosis DEVELOPER Psygnosis RELEASE DATE May ORIGIN

also provas relativaly et _ e fect

NOCTURNE

3D masters TRI turn their sites from vehicles to humanoids







ance to Dark Man (top)



The camere can get excassive, but the gal ood pale next to

fter demonstrating its mastery of vehicular 3D with Monster Truck Madness, CART Precision Racing, and the recently released FLY. Terminal Reality decided to strike out in another direction - the third-person action adventure, Although the company isn't revealing many details at this point, the gameplay should be familiar to anyone who has played Resident Evil; There are plenty of zombies and other homfic monsters to kill

The Moctume engine seems tailormade for the horror game concept. since it supports volumetric fog and lighting and realtime shadows and reflections. Unlike most games, where fog exists only as an opaque shield to mask pop-in, in Nocturne it behaves like real fog - drifting in and out of scenes and helping to create an exceptionally eerie atmosphere. The lighting and shadows are equally advanced - each is rendered in realtime 3D, as are reflections from mirrors. Environments

are entirely persistent, and react realistically -- shoot a wood wall and a bullet hole appears (and stays). Shoot a

concrete wall and expect a ricochet. The NightMoves character engine is equally advanced. The skeletal-based animation, which supports both motioncapture and keyframe animation, is surprisingly advanced and offers such effects as morphing and the ability to tear characters limb from limb. The player or NPCs, of course, can use discarded limbs, as weapons — it's not unusual to blow an arm off a zombie only to have him pick it up and attack you with it.

The Al in the game isn't devoted only to characters. Although none of the game is prerendered, the camera will be fixed. However, each room will have a number of camera points, and the camera switching will be based on a proprietary Al algorithm that the company hopes will create a truly cinematic experience for players, while enabling them to see exactly what is happening in each scene

Even in early versions, TRI's experience with 3D graphics makes it obvious that Nocturne will look great. With several months to add the art assets and tweak the gameplay (and the important camera All. It seems likely that the gameplay will match up as well







ed to create



Bodies crumple realistically in realitims (top). The dynamic camera adds to the action by putting players in unfamiliar situations (above)

PUBLISHER Gathering of Developers DEVELOPER Terminal Reality, Inc. RELEASE DATE Fall, 1999 ORIGIN

FORMAT

A game originally intended to be a Wing Commander-style space opera gets a redesign and becomes a classic arcade update. Will this shooter be worthy of its namesake?







The payoff for destroying a sinistar? One massive explosion, complete with multiple lighting and particle effects



En etrofitting may be the best word to doscribe white Game/X has one with Our of the tool, the name Sinster Chilestendr was called when we originally previewed it 20 Issues ago in NG 31. Shore then, Gamer K scrapped its original plans for a massive space odyssely in the or of a late sheet simple 30 Shoreus. In case to so time the control of the sheet simple 30 Shoreus. In case to Sinster in-Fallaring the former of the sheet simple 30 Shoreus. In case to Sinster in-Fallaring the former control of the Vota's gamelagi to the frame styrings of the classic Williams a coade title seemed like on a sturyal fit.

PUBLISHER THQ DEVELOPER GameFX RELEASE DATE Summer '99 ORIGIN When first previewed in these pages, Our of the Void was technically superb — it was the first truly netwer 30 kg game the NG steff had seen And despite the year and a half of catch-up time GameFX has given the rest of the industry, the effects have taken on more polish and the game retains some brilliant spacescapes that may still go unrivaled when it finally does come to market.

But the gameplay will, according to the team at Gamerk, parallel the design of the original Smister. Players still have to shoot stereions that hold the relyes still have to shoot stereions that hold the relysiats necessary to make sindopmiss, as the player minse the orystais, along grunts will still stack the player's ship. And the ultimate goal remains the same. To make enough Smibombs to destroy the Smistar, the Destrata-like boso on every level which eventually hatches and hunts the players.

"The original Sinistar was kind of an obscure game," admits Mark Tsai, Senior Producer for GameFX. "But our Sinistar son't just a remake," Tsai quickly points out, "It's really an extension, there's a

lot more going on."
"Instead of just the one weapon and missiles," says GameFX Designer Walter





the "lightning gun test now a prerequisita affe in any accelerated gam









Close combat dogfights and a translucent cockpit view enable players to get in tight and get a good look at the detailed enemy ships

Wright, "in addition to your basic weapon, we've got at least eight different weapons you can select from, . Plus some specials, like mines and

bombs."
A weaponry demo calls up some sold effects, including a powerful lightning gun that chains to other enemy ships. Players will also be able to collect a vanety of crystals, each valuable in its own way. And of course, there will be





ompany designed for Out of the Vold, first seen in NG 31

greater variety in the enemies.
"In the original game there was one Shristar on each level," Wright says, "the same boss. We decided from the beginning that we wanted you to meet different creatures as you went through the game."

And the crop of creatures is fairly impressive. The current plan calls for the game to span 24 levels, where every three standard levels are followed by a bonus level. The first 12 levels features an insectlike race of enemies, while the second 12 take place in a darker universe, what Wright calls "the distilled evil Universe," where the Sinistar bosses are spawned. Players will priot six ships over the course of the game: each similar in design but a bit more evolved than its predecessor. Of course, as the danger level ramps up, players will gain access to new ships. And will any of them look like the ship from the original Sinistar?

"No." Was Wright's surprising answer. "Rather than trying to take Sinstar and put it into 30," he explains, "we tried to develop the idea of the original Sinstar as a contemporary one, given the tools we've got."

While GameFX should be commended for expanding the Sinister

ORIGINAL SIN

Noah Fatschi created the original arcade Shister for Williams in 1982. While it's believed that Fatschi is still active in syame development, he is not involved with this update. Shister was one of the first games to feature stereo sound, synthesized voice samptes, and a 49position optical joyatick. The game cain be found on Williams Arcade Classics





ooting asteroids leased crystals need r Sinibombs





bombs were needed lestroy the Sinistar, ch feroclously hunted







ingly endless fields of esteroids, lerge ships, end even lerger plenets bring en emezing sense of scale to the Sinister universe

universe, it seems rash that they've dismissed all of the visual inspiration of the original. Activision's Battlezone remake, which was a radical departure in gameplay, brought fantastic, yet familiar ship designs to the battlefield. As GameFX's ship is exactly the same as it was when the game was called Out of The Vold, Next Generation can't help but to point out to its readers that the team still seems somewhat attached to the former project.

As THQ has surely paid Midway a fair amount of money for use of the Smistar name, it would make sense for



GameFX to get off their assets and rework some of the art to capitalize on the new franchise. The ink was just drying on the licensing deal when Next Generation visited GameFX, so there's hope that some of this kind of work will happen. If not, the developer risks alienating those veterans among us who remember the original's throaty synthesized cry, "Run, coward!"

These observations aside, the team is closing in on solid arcade. gameplay and controls that may have some players letting go of the mouse and dusting off the flightstick, THQ purchased GameFX in late '98 and this title is the publisher's first internally developed PC title. While Sinistar Unleashed might not be perfect when it goes out the door, we assure you it will be a heck of a lot better than most of those wrestling games THO keeps sending us, and that's a good start.





eration, end the er is rec s a P233









KINGPIN

Veteran developers Xatrix take a walk on the wild side



often in Kingpin. The

particularly cruel



legures and valic on, your footstops school of the high brick walls of the warehouses that line the dark corridor. You see a cought kearing the first and the service of the service of the service of the service of the service for an extra first and the service for an extra first probability of the service for an extra first probability of the service for an extra first probability of the service for an extra first first prompt first f

he scene opens with an overcast

dead on the concrete in a pool of blood. The music is pumping, your blood is up. The sirens get louder. This is not your average first-person shooter, it's also not what you would expect to see next from Xarrix, the creators of the tongue-in-cheek Redneck Rampage. Headed by veteran developer Drew Markham, the Santa Monica-based codeshop is justifiably proud of Kingpin, which features a powerful mix of

technical innovation and susy design. Easistratility levil-based, linear challenge set in the darkes corrers of the inner city, the game drops you into the underworld where you must gather oblowers, more and information in your quast to usurp the kingpin, a crime food whose garge rule the werendouses, alleys, and undown tenements of his current in a setting part beggs for a level of resident micromrow in this gather— not repair the time of the setting of the control of the control







tot all encounters have a dolent ending (it is lossible to just talk to IPCs), but most do



PUBLISHER

PUBLISHER Interplay DEVELOPER

Xatrix RELEASE DATE Spring '99

> ORIGI U.S.







Boyz N the Hood me Quake? Urban decay provides the backdo

version of id Software's Quake 2 engine and a highly effective use of sound.

"Using the Quake 2 engine gave us a head start and allowed us to concentrate on the Important stuff," Markham reveals "But we didn't just take the engine and leave at that, we "Unrealized" it — added procedural smoke and fire and lens flave, that kind of thing. Those are all things you're oblised to do now."

The result is a world that leaves nothing to the imagnation. The darkened alleys harbor the homeless, the tenement buildings have been painstakingly constructed with every conceivable deals from the obvoors (apartments with everything from a TV to a toaster) to the unaswory (the unme-stared bathrooms and

backed-up bolets).

Xistr's commitment to realism extends as much to the inhabitants as to the environment. The character models are extremely detailed, and in another addition to the Quake engine, the texture-maps on the models reflect damage instantly and permanently, it's a somewhat ghoulsh, but highly effective, touch

Combat, too, is a departure from the norm. As well as inverse goods to a variety of projectife weapons which must be purchased or otherwise accurate you won't just find them laying around, players on get up close and personal with crowdows, microscycle chains, baseded lates, and led op pers. Judger go the poor feel and control exhibited by hard-to-hard weapons in other first-person tiles, you'd be forgiven for dreading use of such weapons, but a row Xingan it works. Collision is correctly capitated, and weapons have in a Xingan it works. Collision is correctly capitated, and weapons have in the contraction of the

accompanied by a satisfying crunch: This "crunch" is where Xatrix has perhaps made the most progress. Markham and his team have a added a simple, but effective, sound feature "It's surface detection," he explains. "Every object in the game has a material definition to it: Wherever you see metal, you hear metal when you touch it or when you walk on it. Each surface has its own resonant value that modifies the sounds of ricochet bullets, footstens, or debris accordingly, if you're in an alley, you'll hear an echo when you walk, and the sound of your footsteps will be correct."

This "correct" sound is another





Kingpin's violent subject matter is certain to draw criticism, but Xatri contend that it's no more than is needed to provide a realistic game

extremely effective play to once more draw you into the world. And if in not just sound effect that we put to good use, speech also plays an important role. On one level, it adds to the aimosphere with gutter-mounted pargities facing off against once another. All or aimonsphere years against once another, All or aimonsphere with a great or aimonsphere with a facility of the production of the NOSA. As you approach another of backets, you can elect an institute of the removal of the not produce the faringes from hossite to his removal, and this attitude determines the reaction of the NOSA. About haff the inhibitations of Kingpin are neutral, and many on the persuaded or not present and the present of the NOSA.

help you, if approached correctly.
With Half-Life defining the general that Ringsar's accept on violence is sometime for all through the control of all through the control of the control

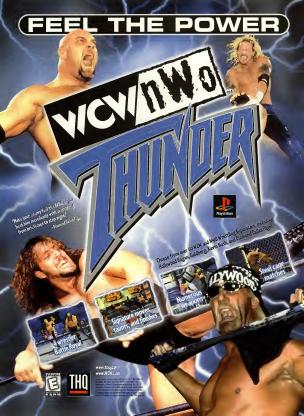




Thanks to a modified Quake 2 engine, Kingpin is a long way from Redneck Rampay



All the environments (however elaborate) as realistic and detail as possible





ough the terrain remains predominantly a scaled bitmap, the ary is punctuated by polygonal skyscrepers that are fantastic to tlate at high speed



amco's Age Combat 1 and 2 supplied firm support for the premise that the arcade-style flight sim has progressed little since Sega's glamorous but shallow Afterburner. By offering uncomplicated physics

models, almost arbitrary "waves" of enemy craft, and a fine line in "fire and forget," Namoo's Ace Combats failed to re-create the sense of immersion and intensity that epitomizes the best PC flight sims, yet they offered little in the way of a quick, accessible blast to ameliorate that loss. Ace Combat 3 must therefore work hard to attract gamers who are intrigued by the prospect of simple plane-to-plane doglights, yet disappointed by the failures

that have marred this sub-genre.

appeal of this third Ace Combat but,

unusually, the Japanese publisher has

weaponry are available, a selection of

based Ace Combat 3's action in the "near" future. While the familiar planes and

Namco aims to improve the aesthetic



FORMAT PlayStation PUBLISHER Namco DEVELOPER

> RELEASE DATE TBA ORIGIN Japan

Namco

Namco-designed aircraft occupy starring Namco is keen to stress that Ace Combat 3's doglights are more involved than the often lightweight exchanges of its predecessors. Rather than firing from a distance with relative impunity, players will have to tackle the enemy and their







improved AI with skill and forethought. The ability to pinpoint a distant cluster of pixels is (in principle) no longer the fast route to That Ace Combat 3 features Dual

Shock compatibility will come as no surprise, but the promise of an analog control system is interesting, Imagine, for example, the ability to use a cockoit-based view, with one stick controlling craft movement and the other altering the viewpoint.

Combine this feature with intelligent, persistent rival pilots who attempt to gun you down from behind, and the potential for tense, atmospheric doxfights is huge. Alas, Namco is jealously guarding the 50% complete version of AC3, so there are few firm gameplay details available

The hardcore flight sim, a cherished staple of the stereotypical PC owner's software collection, has little to offer console owners. Can a stylized, simplified doglight sim succeed where its more complex cousin would fail?





a marked increase In quality over Ace

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STAR IXIOM

Namco's latest sci-fi shooter promises more than a boost in graphics



Starblade, Namoo requires little introduction as a proponent of the space shoot-'em-up genre. Yet Star blom is a progression for the the company addressing criticisms of Starblade's simplistic, linear structure by establishing a framework of mission-based objectives that give the game a strategic depth unusual for a console game Like stablemate Libero Grande, Star

Inghts as Xevious, Galaga, and ith a catalog featuring such high-

ixiom splits its play into two distinct sections. Players deal with their administrative tasks in Map mode, while the self-explanatory Combat mode sees them fly actual missions. Naturally there's a symbiotic relationship between the two, in Map mode, for example, it is possible to establish attack routes and supply lines. Should players neglect this duty, or perform it badly, it becomes

more difficult to achieve their targets in

gentle, informative introduction to its dual

play styles, while Conquest mode (like X-





Namco's artists have opted for a simple, colorful look. The ship designs and cockpit interface maintain the feel of the Starblade series

Com Interceptor) offers a full-scale, nonlinear campaign. But there's also a simplified Conquest mode, where play is conducted on a more approachable and immediately gratifying mission-by-mission

With progressively more powerful equipment up for grabs, and a variety of FMV sequences moving the plot along. Star axiom's debt of gratitude to its Western cousins is obvious. In offening a more cerebral brand of play, though, it distinguishes itself as a relatively innovative PlayStation release NG is curious to see how the Japanese market. reacts to a title with such obvious PC-style overtones.





A Namco trademark (top translucent weapon tra



FORMAT PlayStation PUBLISHER Namco DEVELOPER Namco RELEASE DATE

> ORIGIN Japan



Space sections offer a convincing illusion of speed and scale, as well as the regulate colorful explosions



SILVER

Already three years in development, will Ocean's action RPG prove a worthy investment?







Besides this ornery green dragon, the open pits in the floor may pose a problem for players

ake a quick look at Silver, and you'll see polygon-modeled, anime-inspired characters engaging in realtime combat against a backdrop of sharp, prerendered fantasy settings. Sounds like a console game, doesn't it? But this game, which certainly draws some inspiration from Square's Final Fantasy series, is for the PC. Set in the fantasy world of Jarrah,



ectile weapons can be used to attack enemies from safe dist

Silver combines RPG elements with mouse-controlled realtime combat. Players assume the role of David, who must rescue his wife from the title character, Silver, a comupt ruler who has made a pact with an ewl god - you can figure out the rest. Throughout the course of the game, players will acquire five other party members and will have to collect eight magical orbs in order to gain enough power to confront Silver.

Much like Final Fantasy VII, the land of Jarrah is composed of prerendered backgrounds Every scene (all 270), while lavishly detailed, is viewed from a fixedcamera perspective. Players move through the world in a point-and-dick fashion, solving the occasional find-theitem/open-the-door puzzle.

But during combat, players control their attacks in what can best be described as a simplified version of the mouse-driven attacks from Die By the Sword: the weapon moves correspond to how the player moves his mouse. There are both melee and long-range weapons, 16 in total, that run the gamut from swords and daggers to axes and catapults. The enemies are also diverse,





FORMAT

PUBLISHER Infogrames DEVELOPER

Infogrames UK RELEASE DATE May 1999

ORIGIN UK



Venture into this outlandish swamp and you can guarantee a visit from the freaks

from fairly insignificant Imps to intimidating bosses such as an ice dragon and a giant rat god. rsized weapons and spiky bair cuts certainly

lend credence to

Final Fantasy series

arisons with the

Silver's compelling story is well woven into the gameplay,

setting up action sequences and keeping the player moving toward their next objective. The dialogue throughout the game is extensive - approximately 50,000 words. While it can be viewed as text captions, the voice acting is quite good and includes Dr. Who's Tom Baker. While the fiction is by no means Pulitzer quality, it is better-crafted than most. and it's a far cry from the hokey translations of Japanese RPGs, Notably, a full-time scriptwriter is part of the

Silver is impressive in scope, but after three years in development, its

development team.

to show, especially in the game's fixed cameras, fairly low-poly models, and lack of realtime environmental lighting. Considering the style of the game, Next Generation has to wonder why Silver wasn't developed for the console. The mouse-driven, realtime fighting is something easily converted to a the console audience would eat up. However it's worth noting that the turn-based, PC RPG crowd warmed to a similar, yet cruder mechanic for

control pad, and the story is something Diable In the end, when Silver ships, hardcore PC RPG players may not find the game as adult (read; dark and Tolkien-esque) as other games in this

genre. But hopefully, most will find the

blend of action, RPG, and interesting

story elements ennohing enough

to warrant a look. We did.



there are roughly 40 spells at their disp

roots in older technology are beginning





The Silver team has proved it can create impressive architecture, as seen in this ornate, and labyrinthine library

Huge Air Phat Moves Sick Tricks



MILESTONES

Next Generation's monthly update on tomorrow's games

t takes dedication to make a good game, but it takes innovation to make a great game. Whatever the outcome, all games, even the lousy ones, take time to create. So think about some of those rushed, unbalanced products you saw over the holiday season, and be thankful that some of the following titles, specifically Ultima Ascension, have yet to hit store shelves

ULTIMA ASCENSION *



INDIANA JONES AND THE INFERNAL MACHINE ∞



VAMPIRE: THE MASQUERADE № MARIO GOLF Nintendo 64



Dua this fall from start-up Nihilistic software, the staff on this ection RPG has worked on Dark Porcess, Jedi Knight, Decent, and Descent II







After years of saving the princess, Mario release a bit on the fairways in this simple, ercade-style game not unlike Sony's Hot Shots Golf

NBA IN THE ZONE '99

SAMURAI LEGEND PlayStation



EARTH 2150













JEFF GORDON XS RACING ∞



QUAKE | Nintendo 64





vious is thet it's the N64 version. ast impressive, end four-player as



STARSIEGE *





And, oh ... did I mention that his tongue got an overhaul too!!! Coming in Spring '99



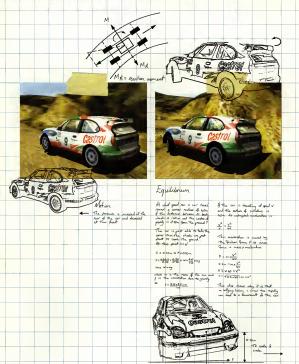
A heart Pounding adrenaline pumping arcade shooter for the N64. Available How

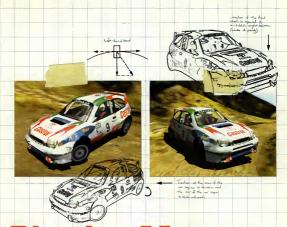


Visit the monster hatchery and create outrageous cyber beings in this amazing RPG adventure of wit and will. Coming in March '99



NINTENDO.64





Physics Matters

In-game physics is the driving force behind the new wave of science-led gaming. Next Generation explores this trend and considers the role more advanced physics will play in the future

In hanks to grawity, falling objects accelerate towards the ground at a ractio of 38 meters per second per second. A cubic meter of water weights exactly one member to m, and freezes at zero origines Celsius. The fastest formado winds blow at 318mph, which is almost half the speed of sound. And a short of lack Daniels Contains AVI pure alcohol, Some things in life, at least, never chance.

It games nameds, towards you can't always rely on the least of physics to popular can't be relating shall be least of physics to popular can't be relating shall games bears the releast take, for instance, the games bears the releast take, for instance, the gamileoper's insocrapement. They have an uncompy ability to insignor their conscribe added into the paint of the ball, and in some cases they seem to east of the ball, and in some cases they seem to east of magnetic force over the ball so that it's accorded into their hards, jour where you hought a top-come pail was certain. (I), when playing a flighting size, how amonying it is linear the sear amount of dismage when you get kicked in the shin as when you receive a shattering roundhouse to the head?

Fortunately technologies are being developed that will one day do anny with such anomale. The horsead processor power that has improved graphics and sudio so much over the sist year is also on hard to revolutionize the physical resident of game words. Accuste physical conding is becoming the order of the day for many developers. Games such as Goldensyle look and sound "real", but soon they should begin to left real, something Gam Turtomo aimsst achieves, and although some word physical are sell gift profit pricements. Next.

Generation exports to see the next great leap forward in game programming being made in this area soon. In the next pages NG voits each gaming genre, and talks with the individuals responsible for the development of in-game physics to discover how realistic physics are being implemented in game.

DRIVING GAMES

TDCA and Gran Turismo set a precedent for others to follow



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sters' TOCA 2

nor to the shift to "proper" 30, racing games were relatively primitive in the way they portrayed the laws of physics, while processor power was at a premium. 20 worlds provided simpler shortcuts. The proliferation of high-end PCs, Dreamcest, and the ability of programmers

with the rest of it."

The car model in POCA 2 is, in fact, in its third liberation after being used in the original POCA as well as in Colin McRae Raily, which goes to demonstrate its versatility, But Opden does admit that, as cutting edge as

The car model in TOCA 2 is in its third iteration after being used in the original TOCA, as well as in Colin McRae Rally

to squeeze more out of the PlayStation and N64 has meant that physics engines are improving rapidly.

Where car's were once treated pretty much as blocks with wheels, it no possible to model a materoidale as a working system. It can be given a chassis and suspension system and the pishts in this system can the pisht as beginned in the pisht in this system can the pisht of the car's statistic effects on the way the car's handled. Though the car's statistic effects on the way the car's handled in support services the contraction engine, in gymen like TDCA 2" is released as a appointed region, and the position is released as a appointed region of the position is released to the position in the position is released to the position in the position is released to the position in the position is released to the position is released to the position in the position is released to the position is released to the position in the position in the position is released to the position in the position in the position is released to the position in the position in the position is released to the position in the position in the position in the position is released to the position in the position

individually to complete the physics of the car.

"All these things are dealt with separately and then linked together," explains Richard Ogden, the programmer responsible for the physics in TOCA 2. "We can therefore easily advance one specif of the model without message."

TOCA 2 is, there's still a long way to go. "The physics in TOCA 2 are accurate as far as it goes but they are actually very simple when compared to the kind of calculations that would be done by engineers analyzing the performance of a real racing car," he says.

manors of a real racing city. The stage, the stage of the control of the control

FIGHTING GAMES

t been basing this action on limb kinetics and their true-life representation in a computer game. "This is simost impossible through the use of motion capture and can only also be achieved by driving the dynamics of the game through

a proper physics engine," adds Cale.

The System 3 team is working toward making damage context sensitive in most games, the damage indicated depends on the move rather than where the opponent is bit. So players can feel finistrated when they kee bouts

As genre leaders, Tekken and Virtue Fighter redefine realism with every new iteration

The holdern and Virtua Fighter series have both been reaponable for increasing the level of realism in Fighting games, principally for their introduction of true 3D fighting paines to this genre. Tablein 3 on the PlayStation and Virtua Fighter 3 in the arcade have also game a long very toward activelying the sense of physical realism that is aboutulely necessary to the genre. Still, it is argued that there's a lack of weight and merita in such games in general. contemporary fighting sames rey on motion

"Having good physics is important, and represents the future in every genre of realtime 3D games,"

capture animations for their realism, rather than models of the human body with bone, muscle, and joints subjected to attributes such as its own mass, suppleness, and center of gravity.

"The big problem with motion capture is that it's not about programming dynamics and physics," says System 3's Mark Cale, "it's more about replaying an animated sequence. You could think of it as prestored physics, not true real-world physics."

System 3, whose fighting credentials go back as far as International Karate on the Commodore 64, is currently working on a new fighting game targeted at the next generation of consoles. The as-yet-unitide project is focused on creating resisting reactions to animated action. thanks to footsweeps rather than decent blows. Cale suggests that players should be able to choose the damage system they prefer one based on the move executed, or a new one based on the importance of the target. Though many developers are reticent when it comes

to broaching the issue, often arguing that Islanfied physics make for better gamelpis, system 3 is wholeheartedy embracing the concept. "Islang good ohypics is important and represents the future in every genre of realitime 30 games, whether it is in offining lighting, or first person perspective." He states: "simply put, it's how objects and people next in the real world and it should be the Hoy Grail of all developers to try and simulate that realism."





A kick to the head in Tekken 3 (top) calls up the right animation in response, but is it physically accurate? Many think Virtua Fighter 3 (above) is more correct, but there is still much work to

he concept of realistic physics is relatively alien to the platform genre. In fact, you can almost see fans of platformers boycotting those games that do feature realistic physics. After all, how much fun would Sonic be if his body was modeled after a real hedgehog? Indeed, how fun would Mario be if his was modeled after an actual Italian olumber? More seriously, what would platformers be like if unlikely leaps of faith could not be made, if springs couldn't propel same characters five

San sites the case of floating platforms; in a simple game like Frogger, stepping onto a log would have no effect on its buoyancy. With a more advanced engine, the platform might bob unevenly where the character is standing and one end of it may bob out of the water. If the character is carrying something heavy this may result in the platform, or part of it, sinking below the waterline. Yet as San points out, the realism can so still further with a more complete model. "In a generic





You can almost see fans of platformers boycotting those games that do feature realistic physics

times as far as they would in the real world, or if small birds weren't able to carry characters 76 times their size across chasms filled with fire-breathing salamanders?

But as Argonaut's Jez San argues, this doesn't mean realistic physics engines can't be used to advance platform games. "In the past, platform games needed to have special case code written to handle each possible interaction that the player may have wanted to have with each object in the game world," he explains. "It doesn't mean it can't be physically accurate if done this way, but it's more elegant and intuitive for both the gamer and the development team if there is a more advanced engine that can handle a higher level of obvisics and collision simulation."

physics model, the density of the object versus its mass would affect its buoyancy. If you dropped it from a height, it would sink a little and then bob up, possibly even springing out of the water"

It's possible that such an engine could be written that deals with all sorts of objects and attributes factors to them such as density (affecting buoyancy), coefficients of friction (slipperiness) and coefficients of restitution (how bouncy they are). Once a physics model is in place that applies to the entire game world, it can be tweaked in different ways to create the sort of cartoon physics bitherto seen in platform games but which work together in a consistent and integrated system rather than being programmed on a piece-by-piece basis.



The physics in Merio (to left) and Sonic (top right ation-by-situation is, wher eas Argor co (above) uses a eralized physics ine that allows ob ch as the rocks and logs to have real mass

FIRST-PERSON SHOOTERS

Benchmark titles such as Quake and GoldenEye partner great gameplay with realistic physics



he immediacy and and visual realism of the firstperson perspective gives this gaming genre instant appeal. Players are also given a certain amount. of scope to interact with the game world. In games like Quake // you can run up spiraling staircases, leap

considerations. "The bottom line is that realistic physics." do not always mean better gameplay. Trespasser is a perfect example of this."

However, this doesn't mean better physics can't be used to improve gameplay. There have been

As real as these games feel, their programmers are having fun with real-world physics rather than replicating them



will include accurately deled projectile ons, which means that ts travel in realtime. le Quake II's space level ve) demonstrates the ng gameplay that can e found in low-gravity

chasms, climb ladders, duck into sewer pipes, and leap from great heights into pools of water. Unreal and Half-Life even enable players to move crates around then climb on them to access new parts of the game and to destroy a number of items in the game world. Yet, as real as these games feel, their programmers

often take license with real-world physics rather than replicating it. Characters can, for instance, change direction in midair when jumping. Even the most capable symnast knows that this defies Newton's laws. You can even combine a carefully timed jump with the force of a rocket explosion to execute the rocket jump - a maneuver certain to blow off your legs in the real world. In the meantime, take a look at the space base level in Quake II to see the effects of meddling with gravity

As 3D Realms' Scott Miller points out, much of this deliberate rule-bending favors gameplay

numerous patches released in the wake of Quake II devoted to tweaking things such as the way players found themselves stuck to the scenery, or sliding off things they bumped into in a curiously unnatural way. Furthermore, projectiles you're confident you've comfortably avoided occasionally still manage to hit you, which can prove horrendously infuriating.

Max Payne, a shoot-'em-up currently being developed by Miller's team at 3D Realms, is set to feature some breakthrough modeling of realistic weapons. "Bullets and projectiles actually travel at their correct speeds, rather than moving instantaneously as in previous games," says Miller. "This means that you'll need to lead opponents who are running at a distance. Bullets will also ricochet correctly and gravity will be a factor so that you will need to adjust your sniper scope for the proper range, otherwise you'll shoot too high or too low."

6661

SPORTS GAMES

For the most part, playing football at premier level is only possible when physics is involved



ue to their immediacy and competitive nature. sports games present environments where the implementation of realistic physics can prove crucial. It's while playing these games that players often feel the most cheated when the game world doesn't behave as it developer of the World League Spacer games, "A spacer ball rolls and flies, but it may not curve due to its spin. The net moves when the ball hits it, but it may only be an animation or built from a simple function. Cornerflags move, but not really due to the amount of wind in the

Though programmers will continue to cheat at sports physics for a while, great improvements are expected



NHL '99 (top) makes good use of bodychecking and m across Icy aces, but It also makes ty of puck cheats. orld League Soccer '99 above) uses motioncaptured animations rather than a physics

does when you play the particular sport in real life - and while it's hard to argue about whether or not the behavior of a spaceship is "realistic," anyone with a TV can easily judge the success (or failure) of sports games physics

In soccer or ice hockey games, for instance, control of the ball is often determined by the rather large collision-detection boxes created around the players. All garners have been in situations where opposing game characters intercept the ball or puck when it actually appears to be quite far away from them, or worse still. when they're not even facing the right direction to receive it. The collision detection in the game code seems to suck the ball into their control. Players can feel cheated, even though the same collision-detection rules apply to their team. Some developers are looking at specifying collision-

detection zones for certain parts of a player's anatomy. "At the moment, the physics aspect of sports games is in its infancy," says Silicon Dreams' Phili Drinkwater,

stadium. All of these issues will be addressed within the next few years, providing a more entertaining game world."

For Drinkwater, it will still be some time yet before players' movement is governed by a physics engine rather than an animation system. "A true physics engine that controlled player movement would be based on the forces applied to muscles and gravity on the joints. This is too complicated at the moment," he says

in the meantime, programmers are more likely to turn to inverse Kinematics, a simplified system governing limb and joint interaction. Though programmers will confinue to use motion-capture animation and cheet at sports physics for a while, great improvements are expected. "The leap over the next few years should enhance gameolay dramatically, producing avenues gameplayers have been hoping for for many years," Drinkwater concludes

ADVENTURE AND ROLE PLAYING GAMES

An advanced physics model could be more than just the icing on the cake

ecause RPGs come from a turn-based background and adventure games focus on guiding players through a story neither type of game has been a particularly relevant forum for the development of physics modeling. Their cerebral, fantastical nature usually means that interaction with characters and collecting magical dems takes precedence over realistic movement or combat. Plus, with a emphasis on fantasy physics aren't a critical issue. "You try modeling a stone-to-fiesh spell in the without smashing. The crude physics model treated it the same as every other item," he says, "With a more sonhisticated physics model, the flask of oil would break and stall its contents. A carelessly discarded torch would ignite the resulting slick."

Such implementations could enable players to kill or trap monsters. Carless is looking for other improvements. too, if wrecking balls and battering rams, as well as walls themselves, could be better simulated, we might see a



If wrecking balls and battering rams could be better simulated, we might see a new RPG sub-genre arise: Siege games

real world," says Ade Carless, senior game producer at Gremlin. "Fossils don't grow on trees, you know!" However, as with most other gaming genres, the

advent of 3D and the move toward resitme worlds has given game designers new avenues to explore. Gamers are tired of the swing-for-swing animated swordlights of titles like Deathtrap Dungeon, Now players crave more satisfying swordplay and weapons systems, such as those offered by the flawed Die by the Sword or Thief.

Physics in RPGs and adventures can so much further than swords with realistic inertia. For Carless, currently working on the eagerty anticipated Blade, giving objects believable properties is one specific aim. "Previously, a thrown flask of oil might come to rest on hard flagstones

new RPG sub-genre arise: Siege games. Blade itself will feature puzzles where real-world physics are critical. A pendulum-based example will see players firing arrows into a suspended bucket to get it swinging, so they can eventually grab hold of it and use the rone it hangs from to swang across a chasm. There will also be water-displacement puzzles, in combat, you'll be able to aim at various parts of a creature's anatomy, so you have a choice of killing or wounding it. The player can even chop off limbs and beat monsters with them. "Ry making the physics model resemble the real world more closely a player can assess his actions before carrying them out and can expect a far more convincing, and fair, outcome," concludes Carless.



The unwieldy swordplay In Deethtrap Dunseon (top) took away as much credibility from the game as the heroine's unlikely outfits. Gremlin's Blade (above) will base puzzles around

its use of rea

Realistic physics has more than a small part to play here

light sims are games where realism is valued probably more than in any other genre. Those who program them are always quick to point out how accurate they've made their jet fighters, helicopters, and missiles, and to the casual observer, titles from NovaLogic, DID, or EA do seem to model the physics of the real world very well indeed. Meanwhile, more than one reviewer has claimed. "The game makes you feel as though you're in the cocknit of a real F-16," without

air pressure is currently uncommon or nonexistent in flight sim games. It's in this area that NovaLogic CEO, John Garcia, believes the next set of advances will arrive. "Consumers can expect flight simulation games to begin incorporating atmospheric and meteorological conditions such as rain and wind effects," he says, "With the swift advance of technology and the availability of increasingly powerful desktop computers in the marketplace developers will also be able to model more sophisticated



"Developers will be able to model more sophisticated system malfunctions, such as holes shot through the wing."

having any knowledge at all of what it's actually like to fly such a plane, it's therefore pretty difficult to verify the accuracy of the physics in any flight sim, particularly those of the supersonic variety.

Flight sim programmers currently attempt to model all the airborne effects you'd expect, such as lift, thrust, drag, gravity, and angle of attack, and where let fighters are involved, Mach and G-forces, too. Planes and missiles themselves can be moved around in 3D according to relatively simple vector calculations. The complexity grows quickly, however, with each factor added to the

plane's flight dynamics or the game environment. The inclusion of crosswinds, thermals, and varying

system malfunctions and mishaps, such as holes shot through the wing," Despite the very strong claims in the area of

physical and mathematical accuracy, flight sims are by and large bound by the same considerations that affect other games. "Developers must take into account the law of diminishing returns," says Garcia, "With limited CPU resources, there comes a point where finetuning the flight model becomes unnoticeable to the consumer. With simplified physics in the flight model. more bandwidth can be devoted to other aspects of the game, such as management of the Al, complex environments, networking, and graphics rendering."







Recent releases like Helf-Life have added just enough reel-world physics to enhance the gamepley experience — and gemepley is the bottom line

ame developers have a very compelling reason for bringing greater levels of realism into games, particularly in the area of physics modeling. If game worlds can be made to behave in the same way as the real world, players will be able to understand them better. They'll know what to expect in given situations, and thus can be led into more complex, less tenuous gameplay situations that they'll be able to deal with intuitively rather than by trying to second-guess the game designers.

On the other hand, games are an escapist form of entertainment. Take away the improbable from them and they wouldn't be half as much fun. If games began to resemble the real world too strongly, where would gamers be able to turn?

It seems clear that no matter which genre they're dealing with, game programmers will come up winners when they find the right balance between realism and fantasy Fantasy dungeons that look and behave like real ones. nowerful cars or lets that most of

us will never get our hands on. blood-and-guts fistfights, and surreal outer space experiences involving geckos can all still benefit from an injection of realism. It doesn't really matter whether it's a realism that's tweaked, twisted, or exaggerated, as long as the resultant games feel consistent and believable. To this end, physics engines seem destined to take charge of games. The 3D revolu-

tion is old news. Physics is the new young pretender. And yet, as with 3D graphics. the hardware considerations are of most concern to developers. They remain very realistic about creating their physics engines. wary of overburdening processors in the arcade machines, consoles, and PCs their games are designed for. No one wants to cripple gameplay. "To truly simulate realworld physics to a substantial degree would take as much computing power as the graphics themselves," points out 3D Realms' Scott Miller, "Maybe that's a new business waiting to explode: Physics accelerator cards/*

: Next Generation pr

INSIDE THE RACING MIND OF

JOHN CARMACK



OUAKEIII

It's going to be a little while before the next scary step in engine development happens ... when you go towards synthesizing environments from another format

CURVED SURFACES



WHAT'S WRONG WITH NURBS?

OUAKE TRAINING

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PLAYING TO YOUR STRENGTHS







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THE JOY OF PROGRAMMING

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TO DREAMCAST

With competition from Nintendo and Sony, the Sega console story is a rough one. Next Generation tracks the tale

The state of 1983 and 1989, there was no home console market as such — then was the himstern formation. The mark you not lie the staff of hypothetic, but the figures speak for betweeke by 1989, a quarter of all American homes covered a Nitrerdo Tomestemment System for machiners connice in the Wester tow, voy set lies Ministration was determed the most accessful company in jusque. Through the combination of branch conference control and accessful company in jusque. The state of the most accessful company in jusque. The state of the companies of branch conference companies and indicatory previously sheared by the little of Asset Colocca and Missili. Settom became the Missilian developed the state of the Missilian developed the state of the Missilian developed the state of Asset Colocca and Missilian Settom became the Missilian developed the Missilian developed

Master System: Mission impossible

It was againer this searchingly inhibition competition that Sigal automated its National System in Japan in 1985. On paper, the machinine engined several advantages oner its beharmoth mail, it was technically supprint, bookings a larger colour patients, better screen resolution, and more countil spritters. Enthermore, Sigal — already a major payer in the control conductor, the data regine of buggly supprised undest the sealable for comercing including finite growing home consisted philosophy. Temper grammers with failthy inhouse seriose poor's valar already of the sound printing state of the serious sealable serious sealable.

The matchine also beasted a few number of sections A case on for for exemine, four or before of the markines and segment to section sconfidences general softence or credit case-design medium. A range of profestional, meanwhile, includes a lightigen and 30 vicinar earbilly assess, families for the fourment of the sound set of the set of t

simplistic, snail-bastd maze affair), a concept Sony would eventually copy by including light synthesizer software in later Japanese PlayStation models. But it proved too little too late in the effort to wasette the 8-bit market. NES had such a strong market share, most developers had no choice but to sign. (This lattle piece of corporate gamesmanship coincided with the beginning of Sega's difficulties with third-party development.) Although

The Master System lacked a killer app of *Super Mario Bros* quality

away from Nintendo. The Master System backed is time and of Super Mario Brito qualify and, in any case, by the time the Mester System was released in key U.S. and Juponose markets, the N.S. and already built up a commanding presence. More institution, Nintendo president Hindel Yarmachi, had an iren girp on thirdyarty developers. Any company withing to meate games for interested in machine had to sign an exclusivity contract forbidding them. the Master System performed respectably in Europe, impressing gamers with a senes of mostly accomplished arcade conversions, it was not the entry into the home marker Sees had honed for.

Mega Drive: First is everything

By 1989, Nintendo's monopoly was beginning to look precarious. Computer technology never remains stagnant and, as the '90s approached, the NES was tottening into its billight. years. Characteristically, however, Yamsuch refused to acknowledge any potential protions. There were fears that announcing a new system would alterable NES owners and, besides, she company was sure that the very existence of its vest user base would.

existence of its vest user base would counter any superior technologies that might come along. To begin with, he was right. The

To begin with, he was right. The Maga Drive was launched in March 1989 in lagen them in the US. as the Geness that fall, ever a year before the SMS debtand Segu, of course, could effer to be soffice to had on the Shit marker simply because it had no hold on the SM immarker is symmotic on the SM immarker is simply system available. SMT the Genes In SMT color or some simply system available, with a 14-bit, 2-7.26/MHz 65000 processor, a SMT color or some simple system available.

And Sega still had its commanding strength in the arcade market to call upon. Thanks to the Genesis' relatively powerful architecture, the likes of Albered Beast, Golden Axe, and Super haing on were sparkling conversions, superior to anything previously seen on home formats:

But the NES still battled on Super Alero Bros & released in 1990, became the biggest-selling videogame in history, selling 7 million copies in the U.S. alone Alongside this were a number of their barty frumphs including early efforts from the Rare stable such as RC Pro-Am Interacto will had the software advantage.

However, the fide was turning, and not just against Nintendo's draconian approach to third-party development, in the West, especially, the company's strict exclusivity clause alternated free-mined development, so when sego offered a much less restrictive locasing deal it emiscaled companies that had previously steered clear of consoles. One exemple was

burgooning gaint Electronic Arts. EA foundair. Thip Hawkins, signed up for Genesis development in 1990 and the software company immediately brought its John Medden Football to the pastform, it was the beginning of EAS long-running licensed sports title senes that attracted thousands of sports-crazy Americans to the 16-bit machine and set lowe bit dividends.

matchine and six pays only outvents on today's patients and six pays only outvents on today's patients. National finally realized the threat and in Collector 1990 they subchook this Super Familion — a 16 st matchine of min the company's 1880 objectionant to be been violating and the sixty of the six participation of the

The company needed something that could blow away the rather sedate offerings from Nintendo - more specifically, their pudgy plumber, Mano. The result was Sonic the Hedgehog, developed in Japan by a small Sega-licensed team and released in 1991. The game may have lacked the depth of Nintendo's Super Mario World, but it had a hip, splkyhaired hero, a lightning pace, visual flair, and the backing of a superlative marketing campaign. The modern videogame industry built around cutting-edge magery and cool ads. began here. Nintendo's dominance of the industry was effectively over.

Sega's response was inspired.

From this point until 1994, the two machines competed on fairly equal floting. Niterato gamens support with a legendary SNES conversion of Street Pighter #, Segs pandaning to the disprise slice street level "gamers with games such as Mortal Kombat for the home. Videogaming bogain os primisinsteam tidetic, in part, by the popularity of



The Ganasis' success can be attributed to a combination of technolog and marketing. The console gave gamers access to true arcade-style visuals, while Sege's ad campaigns were aggressive and pervesive

sports games on Sega's machine), paving the way for the pastime's potential in the following years.

Interlude: Sega loses the plot By 1993, the 16-bit console market was waning, and the world's attention was

turning loward CD-ROM. Systems like the Commodore CD32 and Philips CDI were failures, but beginer with the PC they immousted the concept of materials and, more importantly of fall motion video footage and the intended move in the background, ex-EA nontrol the Pullwins was also busy carriegiting its 300 or project — a relatively powerful 28th consider the industry was suffering frowers, looking for the next agentantion of intendative home instinationment. Consisting the Generals success agents the SMES, then we no various fraint.

Sega was keen to keep garners loyal to its brand name during this explorative period. But this desperation led to a series of abortive and unpopular platforms. Pirst up was the Sega CD, a basic CD-ROM drive addition to the Genesis which, for

HOW NOT TO DESIGN VIDEOGAME HARDWARE: THE SEGA WAY

Sega's past consumer hardware failures are manifold. In fact, rarely have so many successive blunders been made



The Sage CD concept (the second incernation is pictured) was Sage's first step on the road to disaster



While the 32X enjoyed a modicum of dec software support, it was clear that it was stopgap davice



The Sage Neptune, which was never officially released anywhere, was the last blot on the troubled 16-bit landscape

http://www.em.com

the princely sum of \$229, offered little but clever sprite effects, FAM, and CD audio. White Night Pap created a str in Congress thanks to its (supposedy) rioqué FAM content, even Sega's increasingly hip TV ad campaigns couldn't self dreck like Sewer Shark

and Cobra Command.

In March 1994, with the SDD
bandwagen gathering speed, Sega
announced the 32A, a 32AB add-on
for the Genesic Again, despita
promises to the contrary, the machine
locked softweer support and, with
rumors of the Saturn already crousiering, few gamers were interested in
what was obfoliusly a stroppen
what was obfoliusly a stroppen

platform. This was a disastrous time for Sega, in a 12-morth pennd the company managed to work its way through mass of the solar system in aborted or field organis. The Linder a cortraleg version of the Solarun, was scrapped. The Mark, an early codeman for the 32X, fisled the Neptune, a process 32X/criensis combo was ideo soraped. Finally, Sega decided to 51x with Saturn. a relief to those envisaging the leunch of 5 Sees Licensis.

Saturn: DOA?

In developing and metrasing a 16-bit system before its major competitor, segal more or less assured the success of the Mega Drive. It's ironic, then, that following exactly the same gameplan for the 32-bit generation would be as uniforms.

Early Saturn specs were already circulating when, in late 1993, Sony announced that it would be entering the console market with a 32-bit CD-ROM machine set for leurch in lager in late 1994 Prefirmany special finite 1994 Prefirmany special finite at a machine many times more powerful than the Saturu, altegotly prompting Sega president kleyeo Nakayama to storm into the

prompting Sega president Hayao Nakayama to atorm into the company's RSA labs and berate his engineers for being beaten by a newcomer. By now however, it was too late to make syndicant changes to the twin Hatach SPZ processor setup, so Sega simply added a second videoprocessing chip to assist with inclaims.

The Sturrt's mards were, in short, a meast the two-chip setup was powerful, but in meant programmes had to schedule the processors so that they worked efficiently together — a complicated procedure. Plus, twochips didn't necessarily mean twice the power 8 both units were accessing the same memory and internal resources, the eff easily being approximately one-and-shaft times the power of a single processor.

Compare this to the steek internal subflicture of the PlayStation, with its single unit CPU PlayStation, with its single unit CPU and powerful Country Transfer Engine (which some Sony excess claim to be the consists more shable) component), and it's no wonder many developers were bother to trackle Segat's system, indeed, since the machine's inception, only a handful of thrud-race, third-party titles have colorated on the Strim.

in many ways, the philosophy behind the machine was all wrong. While the whole videogame industry



The Euro Seturn wasn't nearly as bold as the model available in other territories, but its one-color case design set the precedent for its eventual 128-bit successor

was moving insourably toward 30 — including Segris own arcade divisions with the likes of virtua Ranong and Virtua Ragher — the company choice to create a console that could hardle huge 20 3 pales and smooth-certaing bitmap backgrounds There were no similar facilities for true 30 incless, the machine calculated in quads rather than transfes, which made porting games between the Seam and other platforms a headacher of significant proportions.

Actimately, some appressed being principles have benefited from the 20 based page, Copcours, which sopiem gaing of Shore (Bigher, XARe), and Khowell Sportrishoos tittle, has fully explorate the marban's sport power, so has SMV with a combine they considered principle general compress those learn the great of the schooling story, them, as they continue the principles and some story of schooling shings and the form some care failable shipper, indeed, the Sopiem has started set against the Physicianon when both where released in appair in the worsted of Vis.

Notwer, goart from the modest access in Jappe, the Setum may well gos, on on Institute or an oble billion. Sony on one filter billion states of the multiple with find the easily-to-be made the easily-to-be made to a bouldary effective materiang campage. The company is estimated to engaging states make objects—althours goals seemed to be more intent on engaging states make objects—althours of the such charloss, and the states of the

PLAYING THE 32-BIT GAME

Unlike the PlayStation, which remains outwardly near-identical in every territory, Sega was happy to experiment



that seturn's outwardly modest eppeerance ballas its technical ability. If only it wasn't so tricky to use ...



The Japanasa Saturn is, in fact, a huga succassful mechine, heving sold over 5 million units in its native territory



A 3DO-styla licensing model existed with the Saturn, but only JVC (with its V-Saturn above) and Hitechi signed up

Dreamcast:

A winding road The story of Dreamcast's inception is a tortuous one Rumors of a Saturn secuel began back in 1996, with the codename Dural, but few trustworthy

technical details were coming to light. in March '97, Next Generation learned that the machine - now apparently codenamed Black Belt would be based around a customized version of VideoLogic's PCX2 graphics chipset, and that Sega had also approached Microsoft with the Idea of using its technology in the console The second rumor would later be confirmed when Sega announced its

adoption of the Windows CE system. Both revelations were greeted with excitement, Sexa, it seemed, was boking to rectify its mistakes with the Saturn by creating a more user-friendly development environment. Plus, the use of so many PC-specific elements would mean easy conversions between Sega's platform and the PC difficult with the Saturn due to its guad- rather than triangle-based 3D calculation). The Black Belt format would not exist in isolation like the Saturn; it could be easily adopted by publishers as part of a multipleplatform development schedule

However, the story was far from over, just weeks later, 30% executives announced their intention to go public. which meant that all current projects had to be made public for prospective shareholders. One such project was a deal with Sega to produce a version of the Voodoo chipset for Black Belt, Exit. VideoLogic, Enter 3Dfx

But not for long. In late July '97,

Bernie Stolar (vice president of Sega America) called representatives of 3Dfx to tell them the deal was off. Once again, numor and speculation took over Sega was alleged to have reverted back to the Dural codename. and then in early '98 a new monker. Katana, began croulating the international grapevine. Along with the speculation came a few tantalizing details: NEC/VideoLogic were back on the project, a modern would be built. into the system, there would be more polygon-gushing power than Model 3. And a theory surfaced: Sega had been working on two Saturn sequels -Black Belt with 30tk in the States, and Dural/Katana with VideoLogic and NEC in Japan. The latter project proved superior and was officially approved.

Until now the hypothesis has never been proven, but "official" confirmation of the new console came on May 21 this year when Sega publicly announced its Dreamcast hardware, complete with a 128-bit. RISC CPU, VideoLogic PowerVR chipset, modern, and revolutionary loypeds, More importantly, third-party support - the Saturn's greatest failure - is set to be massive.

ironically. Sega is now in the position if was in 10 years ago facing a seemingly invitable apparent in Sany which refuses to give up on its hugely successful, yet long-in-the-tooth hardware Could the Dreamcast format become the true successor to the Genesis, an ecoch-making technological leap that sweeps away a whole generation of previous platforms? Considering the convoluted story to date, anything seems possible. [NIII]



its past may be littered with convoluted architecture, but Saga's ure remains distinctly one shape, and it looks like this







on Ave (left), When So ogy with the Sega CD, however, dreck such as Bround Zaro Taxas (right) was the result







Capcom producad a respectable version of SFII for the Genesis (left), lie Sega used tha 32X to bring a "spacial adition" conversion of Virtue Racing (center) to the machine. Saturn Space Harrier (right)







Seturn Virtus Fighter (left), but the machine truly excelled with full-on 2D, as demonstrated by X-Man (center) and Radiant Silvarxun (right)

ON THE PERIPHERY: MORE SEGA HARDWARE MISSES

CDX Another post-Genesis mishap, the CDX (or MultiMega as it was renamed for Europe) was a portable version of the Sega CD, launched at the 1993 Consumer Electronics Show. Encumbered with a single-speed drive and a high price tag, it was never going to be more than an esoteric novelty.

skis six-button joyped The Genesis originally shipped with a simple fourbutton pad, but with the release of the SNES and the arrival of fighting games like Street Fighter II. it was clear players would need a more complex interface. Another open-and-shut case of Sega failing to predict industry trends.

SVP chip Another Launch that saw Sega playing catch-up to Nintendo. Following the release of Stor Fox on the SNES - premiering the Argonaut-designed SuperFX chip technology - Sega cama up with its own cartridga-based graphics hardwara, designed to boost the 3D capabilities of its games. The SVP appeared in a Genesis version of Virtuo Rocing, but that was its only significant Same Gear Several companies came up with their own handhelds in the wake of

the Game Boy launch in 1989, but Sega's Game Gear was one of the more promising contenders. Boasting a 4,096-color display and Master Systembased innards, the machine had some technical strength. Unfortunately, the higher prica tag and short bettery life put off many gamers.

sturn analog pad Once again, Nintendo innovated and Sega copied, in direct response to the N64's joypad, Sega released this in 1996 in conjunction with NIGHTS. Again, the technology was not widely adopted.

Saturn modem A precursor to the Dreamcast modem, this Saturn Internet peripheral was launched in Japan in July 1997, along with a keyboard for email usa. A later U.S. varsion, the NetLink, was a failure.

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A solid and competitive example of an established game style.

**** Average Perhaps competent certainly uninspired.

**** Crucially flawed in design or application.

Denotes a review of a Japanese product.



























PC

87	Starslege: Tribes The best multiplayer shooter yet?		
88	UO: The Second Age	-	

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	Mesk of Eternity	PC	92

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Nintendo 64 93

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93

It's simple and vaguely offensive -

it's a South Park game, what did you expect?

SOUTH PARK

Publisher: Acclaim Developer: Iguana



thump this same as yet. another licensed Acclaim title that won't exactly set the world on fire, but at this point, let's just take such things as read, hmm? To be fair to Acclaim, whatever its relative ments (or lack thereof). South Park, the cartoon, doesn't have a lot of deoth, either, in fact, it's practically a dream troense: Stupefyingly simple graphic design, totally unsubtle humor, and an anything-goes sensibility It would probably take more effort to make a bad game based on South Park than it would to crank out one that was competent and

t would be far too easy to

acceptable. Which is exactly what South Park, the game, is, Developed by



a day to put together, and the

insured that all the textures could

show's primary coint visuals.

be painted up in about five

Iguana using its own Turok engine, South Park is a first-person shooter in which you control Kvie. Stan, Cartman, and Kenny as they deal with aliens, killer turkeys, misshapen mutants, and other enemies from the show.

After sweating bullets over Turok 2, the developers at Iguana must have looked to South Park as a sort of working vacation. After all, it uses an existing engine, it's doubtful any of the character models took more than



minutes. That left level and weapon design to take up the bulk of development time, and in the latter case, there's a fair amount of creativity in evidence. From a simple snowball to the cow launcher, practically every weapon has some twisted touch to it. either by itself or in its trendy "secondary fire" mode. The snowballs, for example, can be made out of well let's just say vellow snow: they're far more damaging but take more time to fire (insert sound of zipper going



also means that the game's textures must have been easy to pai





ater levels bring the kids into the allen ship, but while you'll ikely find the difficulty level a lot higher, don't expect the evel design to differ significantly from what you played though earlier—level design is the game's weekest point

down and liquid tinkling here). Level designs, on the other hand, are no more sophisticated than Cartman's taste in snack food. Most levels are relatively straight and narrow, "A leads to B leads to C" affairs with little or no variation in enemies or scenery. Further, in the single-player game, enemy Al is extremely basic (in fact, for the first few levels they pretty much fall back on the "running straight at you while zigzagging a little" technique that's been around since Wolfenstein 3D). On the other hand, this doesn't mean the game



One of the game's strong points is its weapon designs, including the cow launcher, chicken launcher, and Terrance and Phillip gas attacks, are imaginative, if twisted, well in keeping with the show's sensibilit



second level. However, all this simplicity allowed the developers to devote space to a surprisingly inch collection of voice samples, which is, we're willing to bet, what the game's man draw will be for fans of the show the intro sequence, for example, is a complete recreation of the carbon's "Goin' down to South Park' title sequence, rendered in the game's engine in realities 33. The showly."

Fans of the show will be gratified to find that the crotch and fart joice sensibility has been, by and large, retained (in fact, its worth pointing out that there's also an Nintendo 64 version of South Park, with most of the content intact, making it surprisingly raunchy for a game released on a Nintendo console).

creators, Trey Parker and Matt Stone, contributed all the dialog, so it sounds exactly right bleeped-out expletives and all.

The kids get their "mission briefings" from the flodinous Chef in his "70s-eral living room, while his latest conquest lourges on his bed in the background, covered by a sheet but plausibly nude



underneath. And the long string of expletives that erupts from Cartman when he gets nailed in multiplayer mode is enough to singe your ears.

It's the multiplayer mode that folks will probably apprecate most. As a party game, it's almost irresistible, and some 20 characters from the show, from Cartman's Mom to Big Gay Al are available it's as much of a hoot as

the show itself.

But once the initial chuckles wear off, whether in multiplayer or single-player mode, you're left with a first-person shooter much

weif or, whether in multiplayer mode, you're left with a first-person shooter much fike any other, and in fact, not as well-designed as most. It's as fun as the show it's based on, but its appeal is just as fleeting.

RATING ★★★☆☆





At the end of the day, it's a cu above Acclaim's usual license fare — which, of course, does really say much

NG SURVE

We want your opinion.

1	Do you play games on a PC, consola, or both?	□ PC	□ Console	□ Both			On a scale from 1 to 5, how would you rate of the following regular sections of Next Generation ? [1 – Not interested, 5 – Very interested]
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 □ 1-4 years □ 5-9 years □ 10-14 years □ 15-19 years □ 20 or more years
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- 6a. How much money do you, or others in your household, gian to spend on game software in the next 12 months?

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continues with a multiplayer masterpiece



STARSIEGE: TRIBES

Publisher: Sierra Developer: Dynemix his many excelent firstperson shockers in the last year have challenged the Quake senes in single-player exchement, the regring multiplayer champ on the internet is still Quake 2.4 white all of the new games have tried, none have had the originarity or style to convert players or masse. Pibles is

Ownert players or masse. 705
Correloyt blasts Theles Doom with a well-placed disc.
Starolly Troops: estables i Frisbos of Death thrown
left returned the Bood legic fleg!
The Blood Eigle fleg was returned to base.







in one scenario, you can load up an APC with some friends and stage a commando raid on the enemy base

only better the internet expenience of Quake, but it also challenges the paradigms of multiplayer internet action garning as well, it is a tour-de-force of gameplay, graphics, and smart design.

The first thing you'll notice are

The first thing you'll notice are the hage, sprawing environments, Unlike the angular intenors the game has given us so far, Thibe late full outdoor introduces complete with mountains and deep valleys. To help traverse they award me and scape, the Why developers at Opviamic have cultitated every player in the game with a pix pack. Mastering the use of this pack is one of the first three year must do me of the first three year must do.

one of the first things you must do when playing *Tribes* because the ability to navigate in three dimensions adds a tremendous new dynamic to the game. Skillful players will know how to use their yet packs to by over unsuspecting enemies or jump across large gaps to efficited an enemy encument. Other innovations include the acility to drive actionme vehicles and the ability to take manual action of any defensive turner at your base. And to all this the stort active yeter can use a singerifice zoom at any time to view stagets and presumbay shoot them's and the same become a unique like int.

high-intensity virtual battlefield.

Adding to this battlefield feel is

the fact the Tribes is multiplayer only and primarily a team-based game instead of the standard "player vs. everybody else" deathmatches we've come to expect. Capture the flag is the most popular way to play, but there are also missions based on "defend and destroy" and "retrieve and hold" themes that are a blast. Even though the interface will seem a little foreign at first, it's streamlined perfectly to facilitate players' cooperative efforts. There is also a standard deathmatch mode, but after playing the other games, it just seems bland.

While the design is excellent,

the technology is also superior.
Although a 30.6kpp modern is the bare minimum necessary with most of today's indeed action games, at 33.6kpp moder uns also smooth with very lever histories it is truly her first first-person shooter that really works well of the hierarch as to may have seen and the second process with the promised before the promised patch, which should be out by the entry out read this first be software version test'n certain as of the second patch.

Tribes has the design and the technology to be the next standard in internet action gaming. There are afready over 100+ servers available (all free) and more are popping up all the time. This is the first of a new breed of game and we can't recommend it enough.

RATING





The third-person perspective is very helpful when trying to gauge how to use your jet pack

Gaming's grandest multiplayer experiment

gets a much needed shot in the arm



ULTIMA ONLINE: THE SECOND AGE

Electronic Developer: Origin

n 1997, Origin attempted to raise the bar of online saming by providing a massive, open-ended virtual world that could support thousands of players at a time. In theory, it was a brilliant concept. In molementation, however, it faltered hadly. The lag was atroppous, the economic model was crippled, the monsters were practically

shrines are all in place - but it's really a whole new world. Two new cities, Delucia and Papua, provide a welcome haven, and adventurous players will find themselves neckdeep in lave lizards and grant toads in the new dungeons and fortresses.

Practically every technical and play-balance issue in the original Liftima Online has been improved or corrected. Additional servers and updated code have taken a huge bite out of the lag. Monsters are plentiful, as are wild animals and magical reagents. Nonplayer characters no longer offer nonexistent quests and usually have money to purchase your excess inventory items, and



game penalties and an established bounty system make Ife difficult for the casual killer. So the rare player who does try to take your virtual life is generally role-playing an evil character, rather than frying vour butt because it seems like fun and he won't be penalized for it anyway Of course, this isn't to say that

the game is perfect. The lack of built-in quests is disappointing because the Ultima tradition is built on epic struggle, but here there are no momentous goals for heroes to pursue, Origin game-masters and organized players compensate by holding dan wars and contests. but it's just not the same as having

a real, lone-term heroic quest.

On the technical side, lag is still an issue during peak hours, but nowhere near as bad as it was. It manifests mainly in the most populated areas of town, so getting to and from the bank can be a little hairy. In addition, characters cannot be moved between servers. If







d Age adds a nur er of new ar rement is in dramatically reduced lag time





endangered due to low respawn

rates, the servers were unstable.

more frustrating than the last.

player-killers were rampant, and the game sported a host of bugs, each

However, The Second Age is



you'd like to travel with a friend who is playing on one server but you've been playing on another. one of you will have to start over. But, by and large, these are

annovances rather than serious faults. Between the familiar landscape, the exotic additions. the newly solid engine, and the addictive gameplay, this oncetarnished game has finally begun to shine. If you're a fantasy roleplayer, an online chatter, an Ultima, or a previous player who logged out in the Dark Times and never returned, it's time to pack your bags for Britannia. The Second Age. is an Avatar's dream come true.

RATING



Konami's classic series goes under the 3D knife



CASTLEVANIA

Publisher: Konam Developer: Konam







fter the immense success of Metal Gear Solid, Konami's focus has shifted to another of its classic franchises, the Castlevania senes. Though the senes has hopped around from system to system (its latest incarnation. Symphony of the Night, came out on PlayStation), the lestion of Castlevenia fans has kept growing. Many wondered how a 2D

come would fore on a cyclem known for its 3D canabilities and less than stellar sales of Symphony of the Night prodded Konami into taking their flagship series to the next level. But how would a series so firmly rooted in the 2D mindset fare, especially in the post-Zelda era of N64 garning? The answer is: Not too bad, but not exactly great. Castlevenia for N64 introduces

us to two new characters in the series' growing cast: Reinhardt and Carrie, and each adventurer has his or her own path to follow, each slightly different from the other. The game's world has been completely constructed out of smoothly textured polygons, making every action a completely 3D expenence. Each character has his or her own individual weaponry Reinhardt. packs a whip and sword, while Carrie relies on projectile magic



ation and interaction with objects, reducing the emphasis on action



t every open area of the gerous. Expect to save oft attacks. Konami has added a lock-

on feature to remedy the sometimes-clumsy combat system. which makes much of the fighting fluid and easy to manage. This feature works well when traveling areas stocked with countless enemies, but it requires less stall than usual in that you need only continually press the attack button in order to get through most areas Instead Castlevania emphasizes exploration by providing large open areas and countless items to collect in order to beef up your character's inventory. Even the plethora of massive bosses the series is known

tax your dexterity. New features include a 24 hour clock, which sauses some of the events within the game as well as the types of enemies you'll encounter in certain areas There's also a host of new characters who provide clues and keys to important quests and areas. But even with these interesting and sometimes clever new additions, Castlevana never feels as though there are enough elements carned over from

previous Castlevaria games to give

this version continuity and context

for return in three dimensions to



within the series. And the game itself, though thoroughly playable and competent, never spes beyond its initial promise of an average action title with adventure elements. The bosses even seem watered down, reducing the challenge level to nothing more than any other run-of-the-mill beat 'em up. Admittedly, it's difficult for any 3D title on N64 to outshine Nintendo's elven Link, but what Castlevania does possess in its favor (an appropriately moody soundtrack and an immersive, dark fantasy environment) can't elevate

With Konami continually dabbling in 3D on the PlayStation as well as in its upcoming N64 lineup. the promise within Cast/evenie is evident in some of the game's stronger features. But overall, the game fails to revitalize a series that has always been so flawlessly defined in two dimensions.

how average the gameplay is.





O.D.T. - ESCAPE OR DIE TRYING

Publisher:

Psygnosis Developer: Psygnosis

his game is such an obvious knockoff of Tomb Raider that there are ontical Tomb Raider features that aren't even mentioned in the manual, such as the fact that using the 92 betten to walk keeps you from falling off ledges. It would have been rice of them to let you in on that particular technique because until you figure it out you either have to creep along or you fall a lot. Maybe they were saving it for the clue book.

The story involves the crew of a dirights called the Mantifle's that conshes someplace dangerous. There was a magic pearl on board that the crew needs to retrieve and in the process you have to repair your balloon it seems as if the developers were trying for some kind of Captain Namo meets Quake thing but it doesn't work. Nautifyus - Nautifus. Get #7 Almost as tiresome as the game.

On the surface the uses seems plausible Take Yomb Aarder out of its historical context, add monsters, sci-fi blasters, and magic. Not very organal, but there are possibilities there. The problem is in the execution. You buy into the shifting camera angles and tricky control puzzles are well designed and the environments are interesting, in O.C.T. your enemy is the environment. You find vourself struggling to maneuver and

fighting for control, which keeps you from being drawn into the game. There are some neat things in the game such as the batwinged familiar that follows the mage around and the spelicasting interface, but in the end this game is a drag. You can choose to play one of four different characters but the game is the same every time you play it. so there wasn't much point to giving

players more than one unless they were hooms to add replay value Die trying, or better vet, don't

bother trying at all. *☆☆☆☆



If you think writing for this magazine is all fun and games, reat we have to play games like O.D.T. whether we want to or not

NO ONE CAN STOP MR DOMINO

Platform: PlayStation Publisher: Acclaim Developer: Artdink





Mr. Domino is the latest puzzle game oddity to grace the PlayStation
— different and frustrating, but addictive

s the library of PlayStation games grows more and more diverse fread hoserel with the explosive growth. of the system's installed base, along comes Artdink's latest, No One Can Stop Mr. Domino, Though it has a mouthful for a name, the game's concept is a Intile easier to manage, but no gasier to master Players control a cutesy mascottike character through six obstacle-ridden courses by setting up dominoes to trigger switches, which, in turn, cause all sorts of strange events The courses run the gamut from a

casino tabletop to a houseful of accident-prone family members theo points for the black humor in that stage), and when Mr. Domino runs out. of stamina or time, the level is over and you must begin aron. Though the book to incite addiction concept appears simple, the game riself is both frustrating and rewarding

Setting up string hits by linking dominoes from one "trick site" to the next will result in a higher score in turn, a high score gives you more chances to restart levels after you've failed a number of times. Also, after playing through the entire game, you'll open up new characters that possess different attributes and put a different spin on

the same six courses. Although at first glance Mr. Domino may be mistaken as a game for younger lads, the learning curve is considerably high, severely limiting the game's accessibility to younger gamers. But for puzzle-sawy players, the combination of technique, luck, quirky surrealism, and clever designs in Mr. Domino gives the game just enough of a

RATING ***

DELTA FORCE

Publisher:

NavaLogic Developer: NovaLogio ovallogic has made its mark by N ovallogic has hause and per crafting helicopter, tank, and jet sims. Now the company has turned its

attention toward squad-level combat. Delta Force is the latest in a class of first-person shooters that simulate death by a single built. However this game won't be challenging Rainbow Six anytime soon for realistic combat. Role playing the Army's elite counter-terrorist unit is mostly an excuse to run around

out in the open with assorted weaponry and blow up things. The missions are constructed so that accomplishing your spals often means racking up an unreelistically high body count, and the All is as weak as the mission structure.

The computes controlled team members are practically worthless, and sconing a hat on the enemy Al merely requires a builet to cass in the vicinity Missions all tend to play out the same, regardless of the objective, and they ultimately end up fairly boring

Despite the inadequate standalone play however, Dalta Force shines in its multipliver modes. No other some can deliver the chaos of battle like Delta Force when the opponents are human Hit bubbles are gone, requiring accurate shot placement. Having shustional awareness is paramount because human sripers often circle back behind you. Confusion and panic actually sets in when someone charges your base killing everyone in sight. A variety of game cotions, such as Team

Deathmatch, Capture the Flag, and King of the Hill are available on the alwayscrowded 32-player-capacity NovaWorld servers. The latest patch also offers a matchmaking service, providing links to public roque servers as an alternative.





u play with friends, Delta Force is worth a look. If you play e pass on It

PC

WARHAMMER 40,000: CHAOS GATE

Publisher: Developer: Rendom Gemes

/haps Gate is a sci-fi war game set in the distant future, with turnbased tactical squad-level battles Sound familiar? It should. The Warhammer series has been around a long time, and many of today's strategy games grew out of it

Based on the popular paper-andpencil games of a few years back, the Warhammer games deal with the conflict between warring legions of Space Mannes after an insurrection. Several Space Marines turned traitor and joined Chaos and are now trying to enslave the universe, it's up to the remaining true-blue Space Marines to stop them.

The fantasy war setting may sound

unremarkable, but the fighting units are not. The good-guy Ultramarines wear bizarre armor and carry a bossting mixture of futuristic firepower and mediaval close combat weapontry You can fry the bad guys from a distance with bolters, flamers, plasma guris, and missile faunchers, or you can close in with swords, dangers, axes, and lightning claws. The game's 15 spenanos, which can be played

individually or as a campaign, offer plentiful action in jurgles, cathedrals, crises, open countryside, and enemy fortifications Because you're dealing with five-man tactical squads, most of the maps are modest in size

The same has a simple interface. Early missions are relatively easy, but they get tougher as you advance through the game. The trick is to outfit

Hereoic fans will also be delighted.

Once the same sets started

This was OK in the days of Doom and

Quale, but Halfy ife has raised the bar

making this seem like a step backward.

Sure, blasting lots of enemies is fun, as is

navigating treacherous areas, but there's

never any real control of your destiny as

long as you follow the path. If anything,

this keeps Herebo # from being a brilliant

action adventure game and lowers it to

Alteretic & basis for oning for it. It.

easily earns it space on the shalf with the

heavy hitters this season, but it also

serves as a reminder to all that every

pushed if you want your project to truly

aspect of same design needs to be

stand out.

an excellent third-person shooter.

comes to light. Heretic // falls back on the old "find the key open the door" formula.

individual members of your squad to handle all eventual ties, in the Campaign mode, your squads gain experience and abilities with every mission, so take care of them

If you're hooked on realtime



strategy. Chaos Gate will disappoint you But if you still get a kick out of turnbased games, this one has all the tommines

RATING ★★★☆☆



The latest in the Warhammer series, Chaos Gate Isn't terribly innovative, but it's still challenging turn-based strategy

HERETIC II

Publisher: Activision Developer: Bayen ith Hereoc A, Raven Software opted for a rather bold step and used a third person camera even though it still

uses the Quake II engine. This single decision has positively affected the entire design of the product and distinguishes it from the skut of first-person shorrers. hitting the stores this season The Raven teem has done their homework and the usuals in Haratic II

are spectacular it would be silly to say that graphics can carry a game, but they go a long way toward creating a favorable first impression, and we can say this Prepare to be impressed.

you in immediately And while the storyline isn't epic, it is crafted in a way that allows new players to immediately be involved in the senes, yet it has enough continuity with the original game that





le Heretic II is gorgeous and offers a third-person perspective, it

JOHN SAUL'S BLACKSTONE CHRONICLES

Publisher:



pretty and can get creepy, but it pesn't offer anything new to the adventure genre

ohn Saul wrote six novels called the Alackstone Chronicles about Malcolm Metcalf, a monster who ran the Blackstone Asylum, and the terrible things he did to his patients and his son, Oliver And while the books sold 6.5 million

copies worldwide, that wasn't enough for Saul. Now he's brought his tangled world to computers. The game starts where the books left off it's five years later, and Malonim is dead, but his shost has kidnapped Oliver's son, Josh, and spirited him off to Blackstone. Oliver must return to the empty asylum and find his boy.

That's where you come in Your job is to prowf through the dark asylum, talk



to troubled ghosts, recover their favorite possessions to entist their aid, and solve a few brainbusters. Along the way, you'll perfecal to shorten add returned torture used in mental facilities for many years telectro-shock, hydrotherapy, lobotomies, and other ugly treatments! But don't tarry - you've got to get the kid out before dawn Blackstone Chronicles is a usual

treat, with nice creepy atmosphere, but the game is exceedingly linear. There are puzzles that can't be solved until you talk to just the night ghost in just the right order. Some puzzles are inventory based, while others are timed. Still, many of the puzzles are pretty easy, and clues come flying at you from all directions, just in case vourre dense.

Even with the horror setting, the game may not have enough emotional charge to hook most players. And the subject matter is very mature, ruling it out for younger lods Still, it's a good story with enough spoots flavor to keep

RATING ****

1999

Publisher: Sierre Developer: Sierre Studios

he King's Quest series is one of the most venerable and respected omnerhos in computer games and the formula is familier to millions of gamers around the world. However this latest installment is a radical departure from its earlier incamations.

The same is presented as a full 30 environment from a third-person perspective, and as such suffers from many of the same camera placement problems that have plagued designers since Lara Czoft first bit store shelves. Fortunately Sierra Studios has given the player complete control of the camera, allowing them to swing the camera a full 360 degrees, even while the player is moving. The 3D characters exhibit a high degree of articulation and detail, and while buildings and terrain are a bit

more nondescript, they're still individually identifiable

Control is easy to master usang the keyboard to navigate and the mouse to control the camera and manipulate objects. In fact, it's remarkable how much of the series! coint-and-click adventure gameolay has been retained. The usual inventory bar across the bottom of the screen is still there and a citr's on the weapon. box equips a sword or axe, readying the character for combat. The switch to 3D has however, added some "physical" challenges - jumping climbing and so on - to the puzzlesolving ones, and the two styles mesh

with varying degrees of success. Overall, King's Quest fans will be interested because Mask of Eternity



does carry on the mythology set out in earlier sames, but the switch to 30 hasn't really enhanced the basic puzzle solving element that is the cornerstone of this and earlier titles. That may be coord enough for the series' legion of fans, but it doesn't really break new sround in the adverture serve or offer anything you can't find in similar titles the Redspard.





Mask of Eternity adds a thir ension, a new direction for the King's Quest series

DARK SIDE OF THE MOON

Publisher:

Developer: SouthPeak

n is better than its pre but that's about it

 ark Side of the Moon is a sci-fi
 adventure same that combines a rich visual experience using SouthPeaks Video Reality system (translation: tons of FMM with a detailed story and hours of gamepley on six CD-ROMs. You are take Winght, heir to your





third of the screen We not had for an advanture. game with FMV, but that really isn't saying much.

RATING ****





ss sim we've ever seen nd It's cool, too

nly on a PC, where you can keep meticulous records and randomize data sets, could you make a hardcore strategy game like Gangsters, it is kith and ion to Sid Meier's Covization and Master of Organ It's Syndicate for the Coviset. Chaos Lords done right. It's steeped in the grapping but seldom-used imagery of the Prohibition era, but what really carries the game is its design, a for the most partiwell-implemented blend of turn-based and realtime decision-making, a mot that allows for both planning and tension.

Players accrete power through pure risource management, ordering teams of gangsters to extort from neighborhoods, collect protection money rob stores, kill

opponents, bribe politicians, open casinos and guard whorehouses. These orders are given during the turn-based phase, then your commands are executed in realtime. across what is basically a SmOty Endscape Keeping the residing phase lively is the eruption of combat, as you right both the cops and rival gangs for control of the streets

Gunfights happen in an isometric, 2D landscape, with a pause option for new orders. But there's no descenty involved in winning a gunfight, only the challenge of being able to afford to field enough mobsters with tommy guns to win the fight. in the first place, since at heart Gargsters is a huggest strategy am. What matters is how much turf you control, how many gin milis your run, how many judges are in your pocket, and how many Machine Gun Kellys you have on your payroll, And where games like Entrepreneur and Capitalism have worked in the past strictly as business. sims, Gangsters steps it up a notch, with tougher, blooder gameplay

While there are some interface problems, a few design holes, and a sketchy manual, once players master the complex game interactions, Gangsters becomes exactly what fans of this genre look for - something that keeps them up late at make. This is an expellent debut from Britam's Hothouse Creations, a group of refugees from Microprose UK. Keep an eve on this team.

UPRISING 2: LEAD AND DESTROY

Publisher Cyclone Developer:



as the original in some ways. It's bottor

he original Uprising (NG 27) blested onto the scene with some of the most original and innovative gameplay arrywhere Now, with Uprising 2. Ovdione can no longer really use the words "onemal and innovetive" arrymore, but they have still managed to turn out

one bell of a same Those who are familiar with the first game will immediately be familiar with everything the sequel has to offer In fact, it's difficult to pick out major differences between them, You still plot an armored tank called a Wrath through large-scale battlefields while commanding the army amund you

Samepley requires you to use your RATING ★★★★☆ twitch skills to priot the Wraith and

STAR WARS: ROGUE SQUADRON

LucasArts Fector 5/



et's get this out of the way first: There's also a PC version of this game, and frankly, it's awful. This game was designed from day one to run on N64, and a PC port was a mistake small textures became smeared out of recognition on a high-resolution monitor and there are serious issues with framerate and control on less-than-top-

That said, when played on the system for which it was designed in the first place Space Squarkop is a fine game. The first to market with support for the 4MR RAM Expension Pack, Roque Squadron in high-resolution is a feast for the eyes. Wispy sizes, subtle-colored lighting, and detailed ship models all work together to immerse players in a convincing Star Wars universe.

At its heart. Rostve Sougdron is an extension and expansion of the best mission from the disappointing Shadows of the Empire, the Hoth level, Here, flying and fighting is the name of the game, and Rogue lets you battle the imperial menage in all manner of Rebel craft including X-Wings, Y-Wings, A-Wings, the Speeder, and the V-Wing (which looks suspiciously like a Cylon Raider from Battlestar Galactical

At first, flying in the same seems a bit slow. But as players fight their way through the story-connected stages, it's obvious that there's so much going on in some of the missions a faster nace would either cause players to miss the

atmospheric touches or be too difficult. For replay value, Fector 5 is relying on players earning medals for their relative performance, and for the most nort the new works. The better you were the more likely you are to earn a gold medal, lesser performances garner silver

and bronze. Later in the game, certain combinations of medals will unlock new secret ships It's not the most compelling reason

to keep players coming back, but missionhased games have nover stressed reniau value anyway it's more about the expenence along the way and in that arena, Rogue Squadron delivers in spedes. *****

BATTLETANX

Publisher: Studio 3DD Developer: Studio 3DD

ou have to give a com-gastle tarty has a pretty bizante backstory This particular post-nuclear holocaust world has it really bed: A virus has wiped out almost all women, who are so rare and precious they're referred to as "Queen Lords," and wars fought by roving gangs armed with tanks are literally waged over them. Hmmm. Anyway, the emphasis here is on action, not story, so as oddly disturbing as the plot is, it can safely be ignored because the action is well worth checking out.

Although the game is in realtime 30, it initially reminded us of some of the more frenzied shooters of the 16-bit era The pace is relentless, with numerous enemies shooting at you from all directions, sometimes it's all you can do to smply hold down the fire button and pray you can inflict enough damage to

survive. Your main hattle tank is surprisingly nimble, and the power-ups it uses range from swarming missiles (useful), to lasers (powerful but dull), to a nuclear warhead (blows up real biz). Although not exceptionally creative in their design, most of the weapons at least look cool, and manage a few flashy special efforts along the way As you fight your way from New

support your units as well as your brain

to trian and implement the strategies of

overwhelming, that's because it is. The

sheer amount of controls you will need

staggering, and only practice will allow

you to get comfortable with everything

to help you get into the swing of things

as well as a few newber levels so that

past the first levels, get ready because

the game is so fun and engaging that

the difficulty purve ramps up quickly but

you will welcome the challenge, even if it.

takes a couple of tries to figure out each

it few real enhancements over the first,

As can be expected, there are new

some eye-popping visuals (only

weapons, a much improved tech tree.

accelerated for 30%, however) as well as

a better learning curve which allows the

game it qualifies as being better than the

first which is guite an accomplishment.

ground, which is a shame, Still, it packs

enough fast action, deep strategy, and

overall intensity to please any gamer, and

but it fails to really break any new

that's what really counts.

game to be a bit more accessible. As a

Unfortunately, Oprising 2 brings with

you can learn the necessary skills. Once

right from the start with a practice mode

you need to know The game is belanced

to memorize to be successful are

If it all sounds like it might be a little

the army

York to San Francisco, you'll also pick up a small army of your own, friendly tanks which will follow you into battle as you try to "rescue" other gangs' Queen Lords (although "collect" is a more honest term). The majority of buildings and structures can be destroyed, the polygons folding in works better for large buildings than small ones, and it gets repetave. Even with 17 levels, the one-player

Story mode is a trifle short (set to Early, we beat it in a scant sex or eight hours), but there are a wealth of multiplayer



which is as yet unavailable for N64 It's fast, controls well, and it's got tanks blowing up everything in sight - sounds good to us

ory we've ever he RATING **** play is no loke

ADVANCED STRATEGIES

How designers play their games

SOUTI YOUNGELOOD

Lead Designer

STARSIEGE: TRIBES SYSTEM: PC PUBLISHER: SIERRA DEVELOPER: DYNAM

INTERVIEWED: SCOTT YOUNGBLOOD, LEAD DESIGNER

Next Generation: Do you have any tips on hins for someone playing Starasego: Tribes for the first time? What kind of strategies do you suggest for the overall garrie? Scott Youngblood: het Pack, jar Pack, jet Pack, jet Pack, jet Pack, jet pack, jet Pack, jet Pack effectively can save your life and help you get the upper hand on an enemy triberaman.

Tribes can be played at many levets. Find the one that you file the most and master it. Personally, I like to play defense and stay back at the base, making sure the enemy, tribe doesn't come in and destroy all of my precious inventory stations. Solid defense is often the difference between victory and defenst.

Play as a team unkner many of the other Fris games out three; These lends itself to team play. Many of the features are genered toward players coordinating attacks and defenses Working tegether to achieve the mission goals makes the game a much more rewarding experience. Besides, getting four of your heavily armored Thibe-marks into an APC and attacking the enemy as a team is last claim cool!

NG: What section of the game do you find most difficult? What's your strategy for getting past it?





in Tribes you can't win if everyone is playing as a single player

SY. We've delegated several different modes of play that range from no-team destimations to highly strategic "defend and destroy" inssora where team play is a must. The goal of these missions is to infiltrate the enemy trabe's base and take out key equipment. The base can be difficult to attack using only a single tribushin, so the key is to coordinate attacks from multiple directions, thinging key.

For example, one mission (Bloody Vengeance) has several turrets on the base walls: Taking out the turrets first will require quite an effort, but if you first take out the solar panels which provide prower to the turrets destroying the turrets will be much easier.

**

Jet Pack, Jet Pack, Jet Pack, Learn it, master it. Being able to use it effectively can save your life

Team coordination is key And the key to team coordination is having a commander who understands the mission and can effectively direct their tribe.

NG: Which team member is the

best at the game? SY: That's difficult to say There are many good players on the development team and in QA, In Tribes you can't win if everyone is playing as a single player, Players need to assume all the responsibilities of the mission or you'll lose against a better-organized team. Some team members excel in certain areas - some are great at defense, while others are great at offense. We haven't had an internal "King of the ring" contest vet - we've been too busy trying to finish the game.

NOC: Have players discovered strategies you never expected for the game? Which ones have surprised you most? 5Y: I haven't seen anything yet that has made me say, "Whoa, I had no ride after tway possible." But I'm sure that will happen once the game is released to the public. Tribes has a huge depth of strateev, and each of the missions.



When you know that an enemy is hot on your tail and you're trying to maximize your use of the terrain — nothing beats that adrenaline

is varied enough that eventually tribes will develop strategies specific to them. Some strategies will be more successful against certain tribes and less successful against others, it's kind of like playing football: If you pick the right play, you get a touchdown; if you don't, you get a sack and possibly a fumble.

NG: Are there any cheats, tricks, codes, or debug insights in the game that were added for personal reasons? What are they and how do they relate to the

distances in the air (taking some damage from the blast, of course). This is similar to the rocket jumps in Quake (but with much more travel distance). We didn't intend that to happen, but in the course of making explosions propel players In a given vector it just came out that way Another cool feature is piling

more players on an APC than the

fire it a few feet in front of itself

The player can then run toward the

explosion, jump, and jet right as it.

they can propel themselves great

explodes. If the player times it right

Every gamer out there has experienced those "Wouldn't it be cool if the game did this" ideas. When you're making games and you can make those ideas happen - that's the best!

toom? SY: There aren't too many Easter eggs in the game, For the most part, we resisted the urge to spend development time putting in fun stuff that wasn't part of the core game Personally, I would like to have seen an Eric Cartman player voice set. "Kick ass" There are probably things in there I don't know about that will surface after we ship.

NG: Are there any programming artifacts left in the game? Not bugs, but unanticipated features? SY: There are a few "unanticipated features," They happen when players combine equipment to do things that we hadn't originally anticipated. For example, the Heavy Armor player is very heavy and slow, but it can take the bissest. weapon in the game (Mortar) and

amount it was designed for. It's kind of like cramming as many people into a Volkswagen Bug as possible. The displacement code (objects pushing players) made it possible to overload the APCs, it's still a pretty tricky maneuver to pull off without killing your teammates. though.

NG: What was the original concept for the game? How closely does the end product match it?

SY: The game was always going to be a lock-butt multiplayer game. Initially, it didn't have the team emphasis that it does now. This gives it something unique in the world of first-person shooters.

NG: What games influenced the design of Tribes? What games are you currently playing?

SY: The original game that sparked

Tribes development was Doom. We all played and loved it. Every gamer out there has experienced those "Wouldn't it be cool if the game did this" ideas. When you're making games and you can make those ideas happen - that's the bestt Through the course of playing these games we had those "what if" ideas Many of those have made it into Tribes. But many didn't make it in and will most likely end up in future games.

A few of the dev team members got buried in clanonented Quake play. [Lead software engineer! Mark Frohnmayer and I even joined a Quake World CTF clan called the Evil Midnight Bombers We competed in several online tournaments and had a blast doing it.

What games am I playing now? None, Every waking hour is spent working on Tribes. There are plenty of games I want to play but I won't crack open the boxes until Tribes goes gold, Half-Life and the new Need for Speed are a couple of the unopened games I have sitting on my desk at home.

NG: What is your favorite moment in the game? SY: The chase. You've just grabbed an enemy tribe's flag and are trying to get back to your base before getting waxed. The missions in Tribes are larger than the levels in Quake and Quake II and that

means there is more time to catch and/or be caught by other players. When you know that an enemy is hot on your tail and you're trying to maximize your use of the terrain nothing hears that adjensine Mark Frohnmayer's office is right next to mine and we've had many games where both of us were screaming in glee and/or terror from the chase

NG: What ideas for the game ended up on the cutting room

SY: With a same like this there are way more ideas than are humanly possible to put into a single game - or even a couple of games One of the best examples is water. It might not seem like water is a huge idea in a game; other FPS games have had water in them. But we wanted to create takes and oceans as well as rivers, and we wanted to make the water more than just a small obstacle that the player has to jump over or swim through: we wanted to make it a key ingredient. One of the original mission ideas took place on islands in the middle of an ocean. Assaulting an island is completely different than anything else done

in FPS games to date. Other things that didn't quite make the cut were ground vehicles franks, armored personnel carners. scouts), alien races, space combat, and a plethora of other weapons.



The game was always going to be a kick-butt multiplayer game. illy, it didn't have the team emphasis that it does now

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SILENT HILL

SYSTEM: PLAYSTATION PUBLISHER: KONAMI DEVELOPER: KONAMI

INTRODUCTION

Konami's first venture into the horror genre planeered so well by Capcom's Resident ENI series is turning out to be a completely new take on terror. As opposed to Resident EW's campy, but spooky, twist on B-movies, Konami's Silent FW takes a decidedly more sinister and surreal approach to horror The following walkthrough accompanies players through the first sections of the

THE PROTAGONIST

Meet Harry Mason; your average, run-of-the-mill writer who happens to have a seven-year-old daughter. He's certainly no Chris Redfield or Duke Mularm. But when Herry arrives in Signet Hill, Mc Cellinary meets the extraordinary. And this is where you come in, Controlling Harry in combat can be a th'cly hing. He's am is less than stellar and his supply of armo is following walkthrough accompanies players through the first sections of the game. The rest of the adventure will be covered in NG 52

Immted, to say the least. So, instead of fighting it out with each enemy you come across, your best chance for survival will almost always be to evade foss whenever possible.

Conserve your ammo for the inescipable foss, like bosses, and use the Notepads front the First Aud (sigs to replenish livery's health.

THE ARRIVAL

Your arrival in Stent Hill is anything but average, Reviving from a car crash, you'll notice that your daugnter, Cheryt, has disappeared from her seal. Enter the town, and as you peer through the fog, you'll spot the fuzzy shape of a small girl who resembles your daugnter Follow her until you reach an afley. Proceed down the allow poering each successive chain-link gate. As you continue, the light will begin to fade and day turns too quickly into nighttime. As you near the dead end in the alley, you'll come across increasingly disturbing evidence that all is not quite right in Stient Hill.

As things grow even darker, you stumble across what looks like a human body crucified on the chain link fence. This tinggers an ail-out attack by a hoard of kinife-wielding children. Thy as you might, there's no escape, therefore you succumb to the demons and let yourself be kitled.

LOOKING FOR CHERYL

When you awake, you'll find yourset in a café in the middle of town. A female police officer will greet you and introduce herself as Cybil Berinett. After a brief clacussion with Cybil, she'll leave the Café to find back you. On your insestence, she'll also give you your first weapon, a Pistol. There are 15 bullets in the guin. Once Cybil leaves, exprime the vanous terms

strewn about the Cafe. Pick up the Knife, the Town Map, and the Pocker Flashlight. There is also a kotepad on the counter, which you can use to save your game and replenish your health. You'll notice a red portable Radio on the Isable near the window, but you cannot pick it up.

Arm the Pistol and approach the exit doonway. A

flying demon will break through the window and ready itself for an attack. Kill the demon, then pick up the Radio. But the Café and head for the alley on Firingy Street between Bachman and Levin where you lost saw your doughter.

From the Café, head north on Bachman, then take

a left onto Finney, Enter the small aley and dodge the two demon apies by ducking through the chain link gate to the left at the dead end. Follow the alley until you find a set of papers strewn on the ground. The papers are part of Cheyri's sketchbook, On one of the papers are part of Cheyri's sketchbook, On one of the papers, and the paper of paper, "To School" is scrawled in blood. Bott the siley and return to the Café for a breather.

Your new objective is to make your way to the lower left-hand section of town where Midwich Elementary School is located. But all streets that reach the school are blocked by massive gaps in the road. Every time you approach one of the gaps, you'll notice that a buried X will access on the Town Man to indicate a dead end.

So how do you get to the School? Head west down Matheson Street until you reach the dead end. You'll find another set of sketchbook papers lying on the ground. Dodge the demon apes and examine the papers. They provide you with your next set of clues. One of the papers will read, "Levin St. Doghouse." Head the clue and head to Levin Street.

First the house on the leth-and side of the street that has a dephase sitting out from Obdige or kill or the dog carning the year and active rine is dephase to pick up the House Key Use the House Key to unlock the front door of the house and enter inside the home, there's really nothing to find except for a imple-locked door in the back hall and a Notepad on the table. See your game, then get ready to it the stress lagain.

KEYS

You'll need to find three separate keys in order to unlock the door in the Levin Street house. You will find them in the following locations.

Key of Lion: In the trunk of the police car at the east end of the Finney Street bridge.
Key of Scarecrow: In a mailtoon across the gap at the south end of Broy Street. Use the wood plank to cross the gap.

Key of Woodman: In a pool of blood on the basketball court in the alley behind the Café.
You can enter the alley from the south end that opens on Matheson Street.

Once you have all three levy, rement the house on Liven Street and use them on the back doer Varill the Syem access to the backyred and a case shot to the elementary school in the south of twen. Suddenly, the sky will burn dark, and you'll need to use your Flashingh to just dey not the school. The Flashingh is essential for lightness you wee, but it is also a load gleavay for flushing demons humgly for a infainight strack; but the backyred through the gate afong the ferror and you'll ener and the buck siley.

There are plenty of demon apes and rabid dogs between you and the school, so make a beeline for it and don't look back. Keep running and head straight down Midwich Street until you reach the front double doors of the school.



The School Map is Important Pick it up from the lobby

MIDWICH ELEMENTARY SCHOOL

Once you enter the school, make sure to pick up the School Map from the bench along the left-hand wall. Enter the lobby through the double doors and head to the left, You'li find an empty registration area smeared with blood. Examine the papers on the registration office desks to find new clues.

PAPER ONE: 10:00 "Alchemy Laboratory"

Gold In an old man's palm. The future hidden in his fist, Exchange for sage's salt water.

PAPER TWO: 5:00 "Heat wind bearing dark place"

Flames render the silence. Awakening the hungry beast. Open time's door to beckon prey,

PAPER THREE: 12:00

"A place with songs and sounds" A silver guidepost is untapped in lost tongues, Awakening at the ordained order.

The room behind the reception area is empty.

The three puzzles at the school must be completed in a specific order

Head to the infirmary down the hall on the right side of the double door entrance Inside you'll find a Notepad

to save your game and replenish your health. The only doors unlocked in the first hall, at this point, are the double doors that lead into the courtward. Enter the courtvard and run to the far side of the area to avoid the small demons turking in the dark in the back half, head through the set of double

doors and enter the left-hand hallway. The only doors open in this half are the ones leading to the restrooms, so simply head up the staircase to the second floor

On the second floor, you'll enter another emoty hall filled with doorways All of them are open, but there's nothing inside any of the rooms. Head through the north hell leading right and quickly scurry past the demon kild and into the first room (on the map). You'll find yourself in a lab supplies room. Search the shelves to find some Chemicals in a bottle. Pick them up and head back out into the hall Avoid the demon child again and dodge into the middle room, which is the Laboratory. On the middle table there is a severed hand clutching a piece of gold. Use the Chemicals on the hand to receive the Gold Medallion. Make sure to pick up the how of Handgun. bullets on the desk near the window as well.

Bot the Laboratory and head through the far right double doors. Head all the way down to the south end of the hall and through the double doors to enter the south hall. There are plenty of demon children running around, so make sure to dodge them as much as possible. Head over to the left-hand side of the half and enter the last room, inside you'll find a piano and some bloody notes hanging on the chalkboard.

CLUE

"A tales of notes lost birds" First flew a hasty pelican, Rushing for the reward

Next flew a dandy stork, Eager to show he could Fly higher than the pelican.

I forget who came next, But she only flew A half flap Overhead the ctorte

Then one came Next to the dandy Just left of him.

Last out came A raven of low birth She vawned and Lay down for a nan The End

Head to the Clock Tower in the main courtyard of the school and insert the Gold Medallion in the left-hand slot to the side of the locked entrance. Return to the Plano Room and the cover on the keys will now be lifted. Play the following notes in order: (Note that there is no sound when pressing these keys)

Once you finish the stent composition, the Silver Medalion will drop from above the blackboard. Retrieve it and head to the Clock Tower, once again. Insert the medaliton in the right-hand slot near the entrance to the tower and the clock face will read 5,00 Head to the school Basement and enter the Generator

1) D 2) A 3) B-flat 5) C-sharp

The red button on the main generator will now be working. Press it and exit the basement altogether. Now head to the Clock Tower and the door leading inside will now be open. Enter and climb down the ladder Walk through the lower portion of the tower base and climb the ladder at the far end. Exit the Clock Tower and a scene will follow

THE SCHOOL NIGHTMARE

Once you emerge from the Clock Tower, you'll notice that there's something different about the school it has completely changed its appearance, now containing rusted hallways with chain-link walls. The map from the first layout of the school still works, but the route to explore the building has changed. Head through the north double doors in the countyard and immediately go through the upper left door (the side double doors are

Once inside, pick up the Rubber Ball on the rusty table. Exit the room and head to the right-hand door in the hall. Once you enter the room, you'll notice that it's completely empty and cavernous Continue your search by exiting the right-hand door in the room that leads into the right hall on the first floor. Enter the first door along the right-hand side and pick up the yellow Picture Card on the table.

Your next move is to head to the Recention Area. and quickly dodge into the back room to avoid the looming presence of two demon children in the hallway In the back room behind the Reception area, examine the odd-looking door between the two hanging corpses. Insert the Picture Card to unlock it. Move through the

door into the left-hand hallway on the first floor. Once inside the new hallway, duck into the door to the boy's bathroom. Examine the stall and pick up the Shotkun inside. There is also some bloody graffiti on the wall inside the stall that reads. "Leonard Rhine The

Monster Lurks."

What does it mean? You don't know yet, so exit the bathroom and continue down the hallway. Your main objective is to get to the south hall of the second floor. but setting there has been complicated by new walls that block the passage along some of the side halls and the staircases. Make your way to the Locker Room, The Locker Room is located through the bottom right door in the south hall on the second floor To get there, you'll need to weave in and out of classrooms in order to reach the door Once inside the Locker Room, a footlocker will be

ratting. Open it and there will be nothing inside but blood. But once you attempt to walk back to the exit, a body will fall out of one of the tall lockers along the back wall. Examine the body to pick up the Stack Room Kiry. Pocket the Key and make your way to the Stack Room which lies just through the door to the right of the Laboratory in the North Hall on the second floor Find and read the open book on the side shelf.

"Monster Lurks is a book title." Chapter 3: Increasing Delusion.

Poltergeists are among these. Negative emotions

like fear, worry, or stress manifest into external energy with physical effect, Nightmares have, in some cases, been shown to trigger them. However, such phenomena doesn't appear to happen to just anyone. Although it's not clear why, adolescents, especially girls, are prone to such occurrences

After reading the chapter, continue your search for Cheryl by entering the next room through the right-hand door in the Stack Room. Read the open book lying on the woorlen table:

Hearing this, the hunter armed with bow and arrow said, "I will kill the lizard," But upon meeting his opponent he held back, taunting, "Who's afraid of a reptile?" At this, the furious fizard hissed. "I'll swallow you up in a single bite!" Then the huge creature leapt forth, jaws open wide. This was what the man wanted. Calmly drawing his bow, he shot into the lizard's gaping mouth. Effortlessly the arrow flew, piercing the defenseless maw. And the lizard fell down dead.

... This is from an old fairy tale. I remember reading it when I was a kid.

Time to hit the roofices. Take the upper portheast staircase to reach the third-floor rooftop. Use the Rubber Ball to plug up the drainage pipe in the far right-hand. corner of the gutter, then examine the other drainage pipe near the bloodled stone bench along the side of the rooftop. You'll notice a Key inside the pipe just out of your reach. Turn on the water valve near the water tower. This will flood the gutter and flush the key down the pipe to somewhere far below. Head to the Courtyard

Once you reach the Courtyard, notice that the grass below the drainage pipe to the night of the unlocked double doors has formed a small puddle containing the Classroom Key, Pick it up and head to the second floor In the right-hand hallway, use the Classroom Key on either accessible door. Continue through the far door to reach the second Classroom. Ext out into the lower half of the right-hand hall and find the staircase leading down (First Aid Kit on the bench in the half)

Make your way down to the Basement. Head through the left-hand door at the bottom floor to pick up three boxes of Handgun Ammo. When you're well stocked, head through the right-hand door and approach either of the valve wheels on the pipes aloneside the center opening. Your objective is to turn each one so that the soked turnstries in on either side of the opening will clear a passage. Take a deep breath - then enter the first boss room



A little exploration leads you to this corpse











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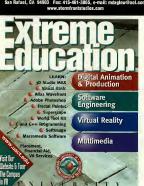
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ENDING

Next Generation, a link to the past

System Shock

NHAT EVER PPENED TO?

well (it's pretty herd to a a 16 x 16 shape table ook like Schwerzenegger), but t did provide excellent action, and "3D" gameplay — players



Following the success of its Vic-20 home computer, Commodore Business Machines released the Commodore 64 in 1982. While the low-cost computer was an instant hit, many history books fail to mention the lasting

contribution the computer made to the videogame industry. Its 64K RAM was a huge amount at the time, and with custom sound chips the C64 was an integrated masterpiece. Top musicians gravitated toward the machine for its high-quality sound while digital artisans eagerly took advantage of its 320 x 200 highresolution graphics. Within months a huge scene was created and many companies took advantage of the momentum by creating

hardware for video capturing. sound digitizing, and expanding system functions' in its final years,



an excellent GUI, Geos, was even released for the system. But the real story was games, Jack Tramiel's greatest triumph was the videogame industry's worst mightmare. The machine easily surpassed the current home console systems. On top of that, the games were very well produced (and, importantly for the success of the system, if not developers, easily bootlegged). The success of the machine has been blamed as a contributing cause for the decline of the videogame industry, but the C64 was the proving ground for many of today's top game developers and

publishers, a list which includes Psygnosis, Rare, and DMA Design Even as we approach the millenium, former C64 users still duke it out in bitter rivalnes with former Apple and Atari home-computer lovalists Which was the best? Next Generation knows better than to answer that question





is quickly adapted to Atari 2600



THE BOYS FROM THE DARKSIDE -- PART1 have conducted more than

400 interviews while compiling information for my upcoming book, and only one nerson has attects refused to cooperate - Sam Tramlel. the last president and CEO of Atari

Corporation. I called Tramiel at Atan more than 100 times, but he never agreed to speak with me or returned my calls. One time he happened to pick up one of my calls in his secretary's absence. I asked for an interview, and he responded by saving, "What do I get out of it?"

Despite the dozens of horror stories I have heard about Sam Tramiel and his family's husiness. practices, I confess I admire the Tramiels. The following is a pareddown version of their story.

When neonle talk about the Tramiels, more often than not they

Retroview by Street Seet, author of a ferthcoming book on the history of videogames

are referring to the family patriarch Jack Tramiel. Jack Tramiel is a true American success story - a Polish Jew who

survived a Nazi concentration camp, came to America, and worked his way from poverty to fortune. After being liberated at the end of World War II. Tramiel moved to the United States, joined the Army, and learned how to repair

typewriters. He saved his money. and opened a typewriter repair store in the Bronx in 1954, in 1955, he moved to Toronto, founded Commodore International, and won a contract to assemble typewnters for a foreign firm.

In a few years, Commodore began manufacturing its own adding machines. Tramiel had an eve for catching trends. Realizing that calculators would replace electromechanical adding machines, he set up a partnership with Casio in the 1960s By 1969.

Commodore owned its own calculator manufacturing plant. In 1976. Tramiel nurchased a small chip manufacturer named MOS Technologies for \$800,000. This was Tramiel's biggest break, MOS made the 6502 microprocessor, the chip that would become the heart of the Apple

I, Atari 400, and Atari 800 computers. Tramiel, and later his sons, entered the computer business with cutthroat East Coast business techniques that earned them enemies throughout the computer industry. Around Commodore, he referred to his business philosophy as "the religion," Executives who were unprepared - or unwilling - to

practice Tramiel's religion quickly found themselves unemployed Tramiel had an explosive temper. He was known for pounding desks as he spoke, yelling at employees, and conducting mass finnes. California

sk anyone to name the most minumbal tole of all time, and odds are that Wolferstein 3D will come up. Game designers had fitned with the concept behind Wolfenstein with releasely title success since the days of 16K home computing. Create a realistic 3D environment to negotiate, and give players an ever-increasing

amens of weapony to play with. Pre-Widenschip, claims of authentic first-person 30 environments had proved dishigentuous, and it et il to John Carmack (programme) and John Romero (designe) to showcase the kind of fast, immersia gaine environments that were finally postable using a then state of the ent 36s processor. Although the game's simple raycasting regne some printive in retrospect, in the propolygan days of 1992, it was applie perfection.

Marketed via Apogee's shareware model, it was immense technological leap from Apogee's previous releases such as Commander Keen, yet retained those titles' strong characters and sense of comic violence, Wolfenstein laid the PC's "strategy and flight sime" mountained to see

Witpout Motiferson 30, there certainly would not have been Doom, and the 30 revolution that swept the game industry in the mid-1950s certainly would not have happened as fast as it dut White Qualte certainly is the result of Carmack and Romero's earlier work on Wilderstein, the timelene of games that grow to notube 5 moth Readur and Marto 64 would have blooked much different if it were not for the small born of sharware occlers as of.





The rotating barrels of the chaingun (right) proved popular enough for the weapon to appear again in Doom and Quake II. By using bitmapped enemies, Wolfenstein was able to pack rooms with action (above left)

magazine once listed him third on a list of "Bosses from Hell."

I have seen that he has a sympethetic heart. But ususity, when it come down to a business decision, the easy answer was to just let people go He had no remorse and no second thoughts about making it happen swithly and promptly. **Doe Thomas,** Former Atan Eneloyce

Trainid eventually convened Commodore from a calculator maker to a forme computer manufacturer. For of tetting his employees, "We need to build computers for the masses, not the classes," Tramiel buildor his engine In 1981, Commodore released the VIC-20, a home computer that came with 5K of RAM and 16-color graphics and sold for under \$300. It was a pricing coup for its time.

graphics and sold for under \$300.1 was a pricing coup for its time. While Asia fallered at the end of 1982, Commodore sold more than 800,000 VIC-20s worldwide. In August, 1982, Commodore launched the \$600 Commodore 64 (C64), a personal computer they charmed rivated the \$1000 Apple III.

As the videograme market countable, do sales commund to build, propelling Commodore into practically unites and of financial success. While building his empre, however, trained developed a reputation for attacking enemies and betraying alless white he was networked in a Canadian banking scandad, and he was noticous of withhirding payables from vendors who were footbe howards to trush him.

Commodore did ther usual Jack Tramel start — not paying the bill if your guys are dumé encugin to sleep shipping. Son commodore evers them seem pulpings. Son Commodore evers them so much money that they run oue of cash and foot themselves our of business. At that point, Commodore comes in and buys the company, them folgoes as cown debt A Alone, Trame Man foot prisaless.

On January 10, 1984, Tramiel had a cataclysmic disagreement with Commodore's board of directors. Three days later, he resigned from the company, But within sox months, Tramiel purchased with \$240 million in promission roles.

Next Month: The Tramiels get ready to give the videogame industry a lesson in outthroat business practices that would propel Atan to new height and ultimately prompt its downfall. [2016]



Letters

Write makes might

As Generation's review of Trans Racine it came as a piesserar suprise, particularly in light of your self-confessed predisposition to give the game a low rating. I was pretty sure the crew at NO had a incis, confry soat on the Tana Bacdash Bandwagen' that had been garing stems more the announcement of TR M's release. I'm glob you proved me wrong, but nonetheless, it's true that many members of the gaming press unlarly bashed the game long before it this shelves.

Elike others in the garring community, I believe most of the negative publicity surrounding. Tomb Raider is due to a modal backlash brought on by overexposure of the garne's star character, Lara. I roncally, it's the media itself that's primarry responsible for this overexposure it's nebeling against.

Sadiy as anyone who has had propeged experience working with the press can tell you, this comes as no surprise. The press is notorious for building up an ioon only to ruthressly tear it down later. I own all three *Tomb Reader games*, and each game is a blest to play. The All is easily the best of the series.

We like Lare, so we put her on the cover, So there

The graphics look much better and the gampitus to up a few notches too. It's tue the game hasn't been completely overhaused but it is better. Use of the improvements are subtle but when you and all the tibe changes togethy. If it differs an expension beyond both previous games Aymon looking at the game with an objective eye can see this. Since you review of If all, believe the staff at Next Generation definitely better byte. Consequently, Iff have more faith in your game reviews.

Roggio Read
Greed13369@aol.com
And in the other corner ...

III you please stop putting Lara on the cover of your magazine! It has been happening too often lately. You game magazine editors really need to get a life. Tomb Raider I, II, and IV are pretty bad games. The control is harrible compared to other 3D games - Mario 64 Crash Zeida etc, if the main character weren't a chick, you probably wouldn't even care about these games. All I am saving is that if you really need to put a girl on the cover, put someone more deserving: Cammy, Claire Redfield, Sarah Bryant, Areis, Tifa, someone from Final Fantasy VIV, or any Square game! Please put a stop to Lara! She looks like a

monkey, anyway.

Corby De Meis

cod/9hotmail.com

that below there was something the
may spoil your enjoyment of a gam
I have loved your magazine to
this point, but it hought the Top 50

We were as surprised — and gradified — as anyone to discover that TR IV was actually a much better game than we thought it would be. Even though Ms. Croft may have become a bit overexposed in the last couple of years, she remains an enduring pop culture icon, an emessary to the world at large that computer and video games aren't pust for kidd arymore. For this reason, as long as the games continue to live up to the hype, we will

continue to support her. Plus, she sells a lot of Issues, y'know?

ost CG (the cover of NG 50 for example) has a very distinctive look, but computer-generated movie special effects are obviously photoreefsite. Is this done deliberately or does the lutter just require much more time and effort?

Phillip Loden viguosyffriotranel.com

A little of both actually, in the case of images like FF UIT'S Squall, it's mostly a matter of Square's heavy aimine influence, and the sylvation and offender unreality is brings. Still, human beings are noticious for being the most difficut objects to model in 30—even in the most megabutygeted movines, while scaly disosparus can be made to look real enough, you'll motice the odd CG person is shown briefler, or from far avev.

In dispusper intentionally fro of and dispuse EMS to fro 100 to or was it abconsoirae. Asia you sooled parts of several games! storylines for those who hadn't bears them. Mesting four Solid and from Fransey vit specifically five bean through these games but no everyone had. You could have put a warring above you!" remonoble moments' beety similar to EGMS that below where was something that may sool your enzyonen of a game thave leved your magazine of their leved your magazine.

was horrible IceBledeX

icolven®gte.net

Next Generation? We did the original top 100 back in NG 21 in September of 1996 — well before EGM did their list in November 1997. Do the math and draw your own conclusions We're sorry we spoiled the games — we just assume, for some reason, that our readers have played most, if not

all, of these games. Oh, that's right — it's because we're a hardcore gamer's magazine. But then, you knew that, right? Chill out lice.

an you guys please take the light that wrote the article on Cark Stone in RO 50 out and shoot him, please? Everyone knows that Dibble was by Bitzand, the gods of PO gaming, and not by those losers that-cart make-aturn game-6-their amortal sousisdepended on it at Westwood. Please cornot the error and left the one responsible to show that this type of stander will not be.

tolerated by Next Generation
Timothy Denger

Thanks for the correction, Wrile we were able to find some builets, no one at Next Generation actually owns a gun, so rather than shoot the editor in question we drove in the buillets in manually with a balf-peen hammer, we hope this was acceptable.

hate to be one of those basted intpickers but in your 50 Best darms antible you placed a picture of star Control & in the a picture of star Control & in the write up of star Control & in the write up of star Control & in the darms was sentible. The only good part of the third game was when the ancient race the player was looking for turned out to be a bunch of cows.

Seth Thompson seth@pizzs-time.com



Classic game sites like this are being shut down by the IDSA

The editor has been dealt with. See above. Same guy.

am a senior software engineer in a Fortune 500. company, and aside from "senious" programming I love to play videogames, I've never written to a magazine before because I've never felt strongly enough about a subject, however the recent crackdown by the IDSA against some retrogerning sites, such as Dave's Videogame Classics, has really disturbed me.

I'm not going to argue about copyrights and intellectual property laws, because no matter what argument is made, the IDSA will always recite the same tired old litary: The law is the law, and it is illegal to download, possess, or use copyrighted game programs (i.e. ROM images) without the permission of the copyright holder. Fine, they're absolutely right, no argument here.

The retrogaming fans argue that these classic games are no longer for sale or can no longer be found in arcades, and therefore the copyright holders are not losing anything by their casual use. For the most part this is a valid point. The IDSA counters this by saving that just because a game is not currently for sale, it doesn't mean it will never be for sale, and they also love to point out how the saming industry lost \$3.2 billion last year due to software piracy. I have a real problem with this estimate because it lumps together mass counterfeiting of software by professional piracy operations with little Johnny who downloads a Space Invaders ROM from the

Come on guys, give me a break! This argument is really getting fired. The industry is booming, game companies are more profitable than ever, and yet they seem unwilling to give a little bit back to the consumers who have supported them over the

Internet and forgets about it 20

minutes later



about this real purty box art

these companies could not exist. Since the IDSA is the direct voice of its constituent companies, it seems to me like a slap in the face for the industry to takes such a stand

As a 30-year old male, I belong to one of the most important demographic groups for the videogame industry. People in the 18-34 age group have the money and aren't afraid to spend It for quality entertainment products. This, I believe is also the demographic which is most interested in reviving some of the classic games that we grew up with. I buy between 20-30 PC games and between 40-50 console games a year. Over the years, I've spent literally thousands of dollars on videogames, and damn it, I want the companies I've lovally supported to lighten up! Honestly, how much of that \$3.2 billion was lost Pac-Man revenue?

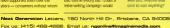
As a final point, the IDSA suggests that we (the gamers) write to the game publishers and ask that they release these games to the public domain. This is not a bad idea in theory, but I doubt a letter-writing campaign would

accomplish much, I suggest a different approach. We must remember that as consumers we have the ultimate power to steer the industry. The power to buy, or not to buy the products that these companies produce. I know this may be difficult for some people. but instead of begging the companies to allow free distribution of these classic games, demand it by not supporting them unless they do. Let them know how you feel, and that the IDSA and its actions are the reasons for the loss of your patronage. Then the lost profits will be real, not caused by piracy and not "perceived" or "estimated"

I think you'd be surprised at how quickly game publishers. would change their attitudes, I think they'd prefer to have you buy their latest games than to lose your business by disallowing the free distribution of a 20-year-old game that doesn't net them a dime.

Steve Ferrero Sferrero@bn.com

Well said Amyone else





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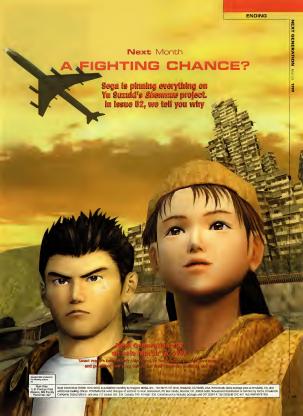
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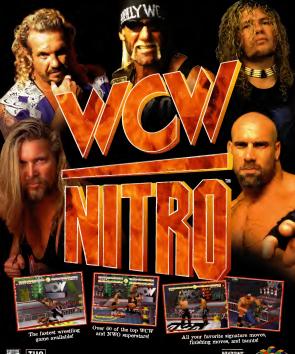
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